

OFFICER IN CHARGE OF CONSTRUCTION
PACIFIC DIVISION
NAVAL FACILITIES ENGINEERING
COMMAND DETACHMENT, FAR EAST

NAVFAC
SPECIFICATION
NO. 42-03-0176

Construction Contract No.
N62836-03-C-0176
WO No. BCYFF
PE: 424 T.T.

REPAIR PICNIC AREA AND EROSION, IKEGO

for the

HOUSING ACTIVITY CIVIL ENGINEER COMMANDER,
U. S. NAVAL FORCE, JAPAN

SPECIFICATION AND DRAWINGS PREPARED BY:

PUBLIC WORKS CENTER, JAPAN
DESIGN & ENGINEERING DEPARTMENT

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ARCHITECT/ENGINEER'S
SEAL

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DIVISION 1

GENERAL REQUIREMENTS

SECTION 01010

GENERAL PARAGRAPHS

PART 1 - GENERAL

1.1 GENERAL INTENTION: It is the declared and acknowledged intention and meaning to provide and secure "REPAIR PICNIC AREA AND EROSION, IKEGO", complete and ready for use.

1.2 GENERAL DESCRIPTION: The work includes modification of existing picnic area; provision of new prefabricated gazebos; and related works, as described on plans and specifications.

1.3 LOCATION: The work shall be located at the Ikego Housing Area and Navy Annex, approximately as shown. The exact location will be indicated by the Contracting Officer.

1.4 PROJECT SCHEDULE AND TIME CONSTRAINTS:

1.4.1 Commencement, and Completion of Work: The Contractor shall be required to complete the entire work, ready for use, not later than 120 calendar days including the mailing period after the date of Award. The mailing period includes the days for mailing of the Notice of Award and the submission of the required bonds and Certificate of Insurance. The time for completion shall include final clean-up of the premises. The Contractor shall complete all the on-site work within 90 calendar days.

a. Working Hours: The project site will be available when work is being performed on site and during regular working hours established by the ROICC between 8:00 a.m. and 4:45 p.m., Monday through Friday, excluding all U.S. legal holidays.

b. Work Outside Regular Hours: The Contracting Officer or authorized representative, may approve work outside regular hours. If the Contractor desires to carry on work outside regular hours, including Saturdays, Sundays, and Government holidays, submit a written justification giving the benefit to the Government, specific dates, hours, location, type of work to be performed, contract number

and project title for approval, and submit request outside regular hours 96 hours in advance of the date the work will start. During periods of darkness, light the different parts of the work in an approved manner. All work outside of regular hours is subject to approval by the Contracting Officer. All work outside of regular hours must be able to demonstrate a benefit to the Government.

1.5 GOVERNMENT REPRESENTATIVES:

a. The work will be under the general direction of an officer of the Civil Engineer Corps, United States Navy, or another officer or representative of the Government, designated in block 26 of Standard Form 1442. Except in connection with the Disputes Clause of this contract, this designated person has complete charge of and exercises full supervision over the work so far as it affects the interests of the Government.

b. For the purposes of the Disputes Clause, the "Contracting Officer" is the Commander, Naval Facilities Engineering Command, or his representatives warranted for this purpose. Any claim submitted under the Disputes Clause shall be submitted to the Contracting Officer in care of the person designated in block 26 of Standard Form 1442 as the representative of the Contracting Officer authorized to receive the claim.

c. The provisions of this paragraph or provisions elsewhere in this contract regarding supervision, approval, or direction by the Contracting Officer or the designated person shall not relieve the Contractor of responsibility for accomplishing the work, with regard to sufficiency or time of performance, except as otherwise provided.

1.6 ORAL MODIFICATION: No oral statement by any person other than the Contracting Officer or authorized representative, as provided in the Contract Clause entitled "Changes" will have authority to modify or otherwise affect the terms of this contract.

1.7 INSURANCE:

1.7.1 Minimum Requirements: The Contractor shall procure and maintain during the entire period of performance under this contract the following minimum insurance coverage:

Type of Insurance

a. Comprehensive General Liability: ¥50,000,000 per occurrence.

- b. Automobile Liability: ¥20,000,000 per person, ¥50,000,000 per occurrence, ¥2,000,000 per occurrence for property damage.
- c. Workers' Compensation: As required by Japanese workers' compensation and occupational disease statutes.
- d. Other as required by Japanese law.

1.8 NO WAIVER BY THE GOVERNMENT: The failure of the Government in one or more instances to insist upon strict performance to terms of this contract or to exercise an option herein conferred shall not be construed as a waiver or relinquishment of the right to assert or rely upon such terms or option on a future occasion.

1.9 SUBMITTALS

1.9.1 Administrative or Closeout Submittals: Submit all the following submittals, except "Request for information (RFI)" and "As-built drawings", at one time.

- a. Schedule of prices
- b. As-built drawings
- c. Subcontractors and personnel list
- d. Vehicle list
- e. Construction schedule
- f. Solid waste disposal permit
- g. Request for information (RFI)
- h. Temporary fence plan

1.9.1.1 Schedule of Prices:

a. Data Required: Within 15 days after the date of Award, the Contractor shall prepare and submit to the Resident Officer in Charge of Construction five copies of the Schedule of Prices (construction contract) on the forms furnished for this purpose. The schedule of prices shall consist of a detailed breakdown of the contract price, giving the quantities for each of the various kinds of work; the unit prices; and the total prices therefore. The required schedule must be based on the actual breakdown of the bid price. The format, content, and number of copies required will be prescribed by the Resident Officer in Charge of Construction and will be subject to his approval. The submission of the required data shall not otherwise affect the contract terms. Payments will not be made pursuant to the paragraph

of the GENERAL PARAGRAPHS entitled "Payment to Contractor" until the Schedule of Prices has been submitted and approved.

b. Submittal Instructions: Furnish five copies of the Schedule of Prices in accordance with the paragraph entitled "Data Required." Payments will not be made pursuant to the paragraph entitled "Payments to the Contractor" until the schedule of prices has been approved.

1.9.1.2 As-built Drawings: Submit within 10 calendar days after completion of work, two sets of as-built drawings to the ROICC. During the work performance, the marked-up drawings shall be kept on-site

1.9.1.3 Subcontractors and Personnel List: Within 15 days after the date of Award, submit the names, job titles, addresses, and telephone numbers of the key personnel of the Contractor and subcontractors for use in the event of an emergency. As changes occur and additional information becomes available, correct and change the information contained in previous lists.

1.9.1.4 Vehicle List: Submit as required by the Contracting Officer.

1.9.1.5 Construction Schedule: Reference "FAR 52.236-15" for general requirements. Within 15 calendar days after the date of Award, the Contractor shall submit a detailed construction schedule by using CPM "critical path method" for acceptance prior to starting work. Construction schedule shall include the equipment delivery schedule. Interim schedules, not to exceed 15 calendar days may be accepted depending on the circumstances of the project. The schedule must be in the form of a computer generated project chart (CPM) utilizing commercially available software specifically for project scheduling. The construction schedule shall include the following at a minimum:

- a. Times projected for all salient, major features of work.
- b. Times for critical submittals, approvals, and procurements of materials and equipment.
- c. Times for testing and inspections.
- d. Primary and secondary/alternate dates the Contractor intends to hold preparatory meetings for each definable feature work.

The project schedule shall be updated monthly or upon approval of significant modifications to the contract that impact existing work. All changes to the schedule must be approved prior to implementing.

1.9.1.6 Solid Waste Disposal Permit: Submit one copy of Japanese local permit and license authorized by the agencies of the prefecture where the solid waste generates.

1.9.1.7 Request for Information (RFI): When the Contractor has questions, submit with sample figure attached as ATTACHMENT-1 at the end of this section.

1.9.1.8 Temporary Fence: Before starting this construction, provide temporary fence (1.8m in height) around the job site in order to prevent the unauthorized people from coming into and going out of the job site. After completion of the construction, remove the temporary fence.

1.10 PAYMENTS TO THE CONTRACTOR: In compliance with the Contract Clause entitled "Payments Under Fixed-Price Construction Contract," payments will be made upon submission of itemized requests by the Contractor and will be subject to reduction for overpayments or increase for underpayments on preceding payments to the Contractor.

1.10.1 Obligation of Government Payments: The obligation of the Government to make payments required under provisions of this contract shall, in the discretion of the ROICC, be subject to:

a. Reasonable deductions on account of defects in material or workmanship; and

b. Claims which the Government may have against the Contractor under or in connection with this contract.

1.11 CONTRACTOR'S INVOICE AND CONTRACT PERFORMANCE STATEMENT: Requests for payment in accordance with the terms of the contract shall consist of:

a. The Contractor's invoice on the form furnished for this purpose, which shall show, in summary form, the basis for arriving at the amount of the invoice.

b. The contract performance statement on the form which shows in detail the estimated cost percentage of completion and value of completed performance for each of the activities. The Contracting Officer will prescribe the format, content, and number of copies required. The submission of the required data will not otherwise affect the contract terms.

c. Updated schedule with each invoice showing actual progress vs. original schedule.

1.12 EQUITABLE ADJUSTMENTS - WAIVER AND RELEASE OF CLAIMS:

a. Whenever the Contractor submits a claim for equitable adjustment under a clause of this contract which provides for equitable adjustment of the contract, the claim shall include all types of adjustments in the total amounts to which the clause entitles the Contractor, including, but not limited to, adjustments arising out of delays or disruptions or both caused by such change. Except as the parties may otherwise expressly agree, the Contractor shall be deemed to have waived: (1) adjustments to which the Contractor might otherwise be entitled under the clause where the claim fails to request adjustments; and (2) increase in the amount of equitable adjustments additional to those requested in the Contractor's claim.

b. The Contractor agrees that, if required by the ROICC, the Contractor shall execute a release, in form and substance satisfactory to the ROICC, as part of the supplemental agreement setting forth the aforesaid equitable adjustment. The Contractor further agrees that such release shall discharge the Government, including the Government's officers, agents, and employees, from further claims, including, but not limited to, further claims arising out of delays or disruptions caused by the aforesaid change.

1.13 ACTIVITY REGULATIONS: Obey activity regulations, including fire, traffic, safety, energy conservation, and security regulations. Provide written "General Authorization to Work on Base" to the Contracting Officer, via the Industrial Security Office, Commander Fleet Activities, Yokosuka. Personnel employed at the activity shall keep within the limits of the work (and avenues of ingress and egress) and shall not enter any restricted areas unless required to do so and are cleared for such entry. Wear hard hats, with the Contractor's name prominently displayed, in designated hard hat areas. The Contractor's equipment shall be conspicuously marked for identification.

1.14 ORDER OF WORK: Schedule work so as to cause the least amount of interference with activity operations. Work schedules are subject to the approval of the ROICC.

1.15 EXISTING WORK: Prevent injury or damage to existing work which remains. Repair or replace as directed, in kind and in a manner

to match existing adjoining work, the portions of existing work damaged or altered during construction. Work of this nature shall be performed by the Contractor at the Contractor's expense. At the completion of operations, existing work shall be in a condition equal to or better than that which existed before the new work started.

1.16 RESTRICTIONS ON OPERATIONS:

1.16.1 Coordination With Other Work: The Contract Clause entitled "Other Contracts"; the paragraph entitled "Order of Work"; and the following apply:

1.16.1.1 Occupied Building: Work is in and around existing buildings which are occupied. Do not enter buildings without prior approval.

1.17 ACTIONS REQUIRED OF THE CONTRACTOR

1.17.1 Activity Permits: Obtain pursuant to the paragraph of Section 01010, "General Paragraphs," entitled "Activity Regulations." Permits are required for, but are not necessarily limited to, welding, digging, and burning. Allow 7 calendar days for processing of the application.

1.17.2 Location of Underground Facilities: Verify the elevations of existing piping, utilities, and other underground obstructions not indicated or specified to be removed, but indicated in locations to be traversed by piping, ducts, and other work to be installed. Verify the elevations before laying new work, closer than the nearest manhole or other structure where an adjustment in grade could be made. For additional work required by reason of conflict between new and existing work, an adjustment in contract price will be made in accordance with the Contract Clause entitled "Differing Site Conditions."

1.17.3 Excavation Requirements: The Contractor shall receive written permission from the ROICC and intent to excavate whenever digging is required to perform this contract. The request will provide a sketch of the area, limits of the excavation and expected depths. Unless removal of contaminated soil is elsewhere specified as a part of the contract scope of work, immediately report to the ROICC any unforeseen discovery of soils suspected of being contaminated with oil or other hazardous materials. After notifying the ROICC, the Contractor will take whatever pro-active measures are necessary to protect the excavation from erosion and prevent the spread of

suspected contaminants until testing can be accomplished. Testing will be accomplished as directed by the Contracting Officer through the use of a contract modification or by Government personnel. After analysis of the test results, any soils found to be contaminated will be properly treated and disposed under the direction of the Contracting Officer through a contract modification or by Government personnel in accordance with Japanese industrial waste interim treatment and licensing regulations.

1.17.4 Storm Protection: When warnings of gale force winds of 34-49 knots are issued, take precautions to minimize danger to persons, and protect the work and nearby Government property. Precautions shall include, but are not limited to, closing openings; removing loose materials, tools, and equipment from exposed locations; and removing or securing scaffolding and other temporary work.

1.17.4.1 Actions Required During Typhoon Conditions: Unless directed otherwise by the ROICC comply with the following:

- a. If condition occurs at night, commence securing operations at first light of the next day. On weekends or holidays, commence securing operations at the earliest opportunity.
- b. Tropical Storm/Typhoon Condition One (Sustained winds of 50 knots or greater expected within 12 hours): Secure the job site.
- c. Tropical Storm/Typhoon Condition Two (Sustained winds of 50 knots or greater expected within 24 hours): Curtail or cease routine activities until securing operation is complete. Reinforce or remove form work and scaffolding. Secure machinery, tools, equipment, materials, or remove from the job site.
- d. Tropical Storm/Typhoon Condition Three (Sustained winds of 50 knots or greater expected within 48 hours): Maintain "Condition Four" requirements and commence securing operations necessary for "Condition One" which cannot be completed within 18 hours.
- e. Typhoon Condition Four (Sustained winds of 50 knots or greater expected within 72 hours): Normal daily job site cleanup and good housekeeping practices. Collect and store in piles or containers scrap lumber, waste material, and rubbish for removal and disposal at the close of each work

day. Maintain the construction site, including storage areas, free of accumulation of debris. Stack form lumber in neat piles less than 4 feet high.

1.18 SANITATION: Provide adequate sanitary conveniences of a type approved for the use of persons employed on the work, properly secluded from public observation, and maintained as directed. Upon completion of the work, remove the conveniences from the premises, leaving the premises clean and free from nuisance.

1.19 SPECIFICATIONS AND STANDARDS: The specifications and standards referenced in this project specification, including addenda, amendments, and errata listed, will govern in all cases where references thereto are made. In case of differences between these specifications or standards and this project specification or its accompanying drawings, this project specification and its accompanying drawings will govern to the extent of such differences. Otherwise, the referenced specifications and standards will apply. The requirement for packaging, packing, marking, and preparation for shipment or delivery included in the referenced specifications will apply only to materials and equipment that are furnished directly to the Government and not to materials and equipment that are to be furnished and installed by the Contractor.

1.20 OPTIONAL REQUIREMENTS: Where a choice of materials or methods, or both, is permitted in this contract, the Contractor will be given the right to exercise the option unless otherwise required by the specification.

1.21 FACILITIES AND SERVICES

1.21.1 Availability of Utilities Services: Pursuant to the Contract Clauses entitled "Availability and Use of Utilities Services," reasonable amounts of the following utilities will be made available to the Contractor at no cost, except the utilities for the Contractor's temporary office and hut at the following rates:

Electricity: \$136.48 per 1,000 KWH
Potable Water: \$ 10.36 per 1,000 Gal

Rates shown were the latest available during the preparation of this specification, and are provided for informational purposes only. The point at which the Government will deliver such utilities or services and the quantity available is to be directed by the Contracting Officer. Pay costs incurred in connecting, disconnecting

converting, and transferring the utilities to the work. The Contractor shall furnish backflow-preventing devices on connections to domestic water lines; meters; transformers; necessary accessories and perform necessary excavation/backfilling. The Contractor shall make connections and disconnections.

1.22 CONCILIATION CLAUSE:

a. Any disagreement arising under this contract which is not resolved by the parties to this contract may be submitted to the U.S.-Japan Joint Committee for Conciliation in accordance with paragraph 10, Article XVIII, of the Status of Forces Agreement under Article VI, of the Treaty of Mutual Cooperation and Security between Japan and the United States of America.

b. Recourse to the Joint Committee for Conciliation for resolving disputes is available in addition to the procedures set forth in the Contract Disputes Act of 1978 and the Disputes Clause of this contract, 52.233-1. A request for conciliation by the Joint Committee, however, shall not toll the time periods allowed under the Contract Disputes Act for appealing the Contracting Officer's final decision to either the Armed Services Board of Contract Appeals or U.S. Court of Federal Claims.

c. Upon filing a request for conciliation with the Joint Committee, the Contractor shall immediately notify the Contracting Officer in writing of the request.

1.23 INTERPRETER: The Contractor shall furnish the service of an interpreter on the job. This interpreter shall have strong knowledge of the English language in terms of writing, listening, speaking and reading skills. Interpreter's English skills shall also be well suited to the construction industry. If at any time the Contracting Officer feels the Contractor's interpreter is unable to perform the duties required of him/her, the Contracting Officer will ask for his/her immediate replacement. When the QC manager or the project superintendent talks with the Government representative, on-site or off-site, they shall be accompanied by their interpreter.

PART 2 - EXECUTION

2.1 PERFORMANCE OF THE WORK: The Contractor and his employees shall be subject to all orders and regulations promulgated by the Commanding Officer of the activity concerned, for purpose of insuring base security, cleanliness, and protection from fire hazards. Unless the use of other sanitary facilities is authorized, the Contractor shall provide such conveniences. The Contractor shall take every reasonable and practicable precaution as concerns the prevention of fire at work sites. Temporary wiring shall be held to a minimum, and shall be properly insulated and supervised by a competent electrician. The use of unattached salamanders or other heating devices is prohibited. A daily cleanup of scrap, lumber, paper, cement sacks and other building debris shall be accomplished. For open fires of any type, a proper permit from the Base Fire Department must be obtained by application to the Contracting Officer.

a. Contractor Participation in Safety Program: Prior to commencement of work at the sites, the Contractor or his appointed representatives, preferably the worker(s) who will be responsible for the work at the site(s), will be required to attend a pre-construction conference. The pre-construction conference will be convened at a time and place mutually agreeable to the Contractor, the Contracting Officer, and the related Government personnel. Safety and other requirements of the work at the site(s) will be discussed during the pre-construction conference. If the Contractor contemplates that a part of the work at the site(s) will be accomplished by a subcontractor(s), the subcontractor(s) shall be represented at the pre-construction conference by his (their) supervisors.

(1) At the pre-construction conference, the Contractor and his subcontractor will be required to submit for review and discussion a written safety plan, with hazard analysis, which references applicable portions of a safety code(s); for example, Safety and Sanitation Section of the Japan Labor Standard Law and the US Army Corps of Engineers Safety and Health Requirements Manual EM 385-1-1.

(2) On the Job Safety Meetings: All Contractor and subcontractor personnel working under this contract at the site(s) shall attend a weekly safety meeting of at least 5 minutes duration. No change in contract price shall be entertained because of these meetings. A representative of the Contracting Officer may attend these meetings. It behooves the Contractor to encourage active participation in these meetings to promote the highest possible degree of safety at the work site(s).

(3) Accident Reports: The Contractor shall report all lost time injuries on NAVFAC Form CSIR-1 (Contractor Significant Incident Report) within 24 hours following the lost time injury. Accident reports shall not be held up for return to work of the injured employee. The Navy inspector or the Contractor's job supervisor shall estimate the injury time loss. The Contractor shall report all accident with any of the consequences as listed in Section 01.D or 01.D.02 of EM 385-1-1 to the designated authority.

2.2 CONTRACTOR'S FACILITY: If there is adequate land area available, and on the basis of non-interference in the requirements of the Government, the Contractor may be permitted to erect a structure of reasonable size at or near the site of the work or at the other location on base as directed by the Contracting Officer. The Contractor shall receive CNFJ approval for temporary facilities at Ikego area. The Government is under no obligation to provide such land, but the Contracting Officer will accept a written request for temporary assignment of an area for such use. If approved, the Contractor may proceed, providing that it is clearly understood that the Government will bear no responsibility for the safety and security of the structure or its contents (including equipment, material or any other things of whatever nature). If the Contractor erects a structure on Government controlled land in accordance with the foregoing, it shall at all times be kept in a neat, clean, orderly condition in order to improve safety and reduce fire hazards. The disposal of trash and debris shall be the Contractor's responsibility. Electric power, water, and telephone may be installed in the structure, subject to approval of the Government, on payment by the Contractor of the established charges unless otherwise specified. Within 15 calendar days after completion of this project, the Contractor shall remove the temporary facilities for this project to restore the land to the original condition.

PART 3 - TECHNICAL

3.1 PROJECT INFORMATION:

3.1.1 Contract Drawings and Specification: As specified in Contract Clause, DFARS 252.236-7001.

a. Index of Contract Drawings:

NAVFAC DRAWING NO.	TITLE
7838389	Removal Plan
7838390	New Plan
7838391	Details of Conc Retaining Wall
7838392	Details of Conc Stairs
7838393	Typ Details of Conc Pave, Sidewalk and Fence
7838394	Landscape Details
7838391	Gazebo and Table/Bench

*** END OF SECTION ***

CONTRACT NUMBER N - - -	REQUEST FOR INFORMATION	RFI NUMBER
CONTRACT TITLE:		
PRIME CONTRACTOR:		
SUBCONTRACTOR/SUPPLIER:		
TITLE OF RFI:		
CONTRACT DOCUMENTS AFFECTED BY THIS RFI (DRAWINGS, DETAILS, SPECS, ETC):		
COST EFFECT:		RESPONSE REQUESTED BY:
INFORMATION REQUESTED:		
_____ DATE	_____ SUBCONTRACTOR/SUPPLIER	_____ DATE
ANSWER PROVIDED BY ROICC:		
_____ DATE	_____ CONREP SIGNATURE	_____ DATE
_____ AROICC/AREICC SIGNATURE		
THE RFI SYSTEM IS INTENDED TO PROVIDE AN EFFICIENT AND FORMAL MECHANISM FOR RESPONDING TO CONTRACTOR'S REQUESTS FOR INFORMATION. IT IS NOT AN AUTHORITY TO PROCEED WITH ADDITIONAL WORK. IF YOU CONSIDER THE RFI RESPONSE A CHANGED CONDITION, WRITTEN NOTICE TO THE ROICC IS REQUIRED IN ACCORDANCE WITH CONTRACT PROVISIONS.		

SECTION 01330

SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 DEFINITIONS:

1.1.1 Submittal Shop drawings, product data, samples, and administrative submittals presented for review and approval. Contract Clauses "FAR 52.236-5, Material and Workmanship," paragraph (b) and "FAR 52.236-21, Specifications and Drawings for Construction," paragraphs (d), (e), and (f) apply to all "submittals." Every submittal shall be written in English and Japanese. Unless otherwise specified, submit to the Contracting Officer within 15 calendar days after the date of award.

1.1.2 Types of Submittals: All submittals are classified as indicated in the paragraph "Schedule of Submittal Descriptions." The submittals also are grouped as follows:

- a. Shop drawings: As used in this section, drawings, schedules, diagrams, and other data prepared specifically for this Contract, by the Contractor or through the Contractor by way of a subcontractor, manufacturer, supplier, distributor, or other lower tier contractor, to illustrate a portion of the work.
- b. Product data: Preprinted material such as illustrations, standard schedules, performance charts, instructions, brochures, diagrams, manufacturer's descriptive literature, catalog data, and other data to illustrate a portion of the work, but not prepared exclusively for this Contract.
- c. Samples: Physical examples of products, materials, equipment, assemblies, or workmanship that are physically identical to a portion of the work, illustrating a portion of the work or establishing standards for evaluating the appearance of the finished work or both.
- d. Administrative Submittals: Data presented for reviews and approval to ensure that the administrative requirements of the project are adequately met but not to ensure directly that the work is in accordance with the design concept and in compliance with the Contract documents.

1.1.3 Approving Authority: The person authorized to approve a submittal.

1.1.4 Work: As used in this section, on- and off-site construction required by the Contract documents, including labor necessary to produce the construction and materials, products, equipment, and systems incorporated or to be incorporated in such construction.

1.2 SUBMITTALS: Submit the following in accordance with the requirements of this section.

1.2.1 SD-18, Records

a. Submittal register

1.2.1.1 Submittal Register: State for each submittal the Contractor's planned submittal date. Insert dates on copies of the "Submittal Register." "Submittal Register" form is provided as attached at the end of this section.

1.2.1.2 Submittal Register Preparation: Prepare and maintain a submittal register. Instructions are included in paragraph titled "SUBMITTAL REGISTER INSTRUCTIONS" for use in developing the submittal register. The submittal register with columns (a), (b), (c), (d) completed, is designated the initial submittal register required as a part of the quality control plan. The remaining columns on the submittal register forms shall be completed by the Contractor. Additional details concerning the use of the submittal register will be explained at the preconstruction conference.

1.2.1.3 Submittal of Submittal Register: The Contractor shall submit his submittal register, for approval, prior to submission of other submittals or along with their initial submittal submission. And the Contractor's copy of the completed submittal register shall be submitted to the ROICC at the completion of the project as an administrative closeout submittal.

1.3 PROCEDURES FOR SUBMITTALS

1.3.1 Reviewing, Certifying, Approving Authority: The QC organization shall be responsible for reviewing and certifying that submittals are in compliance with contract requirements. The approving authority on submittals is the QC Manager unless otherwise specified for the specific submittal.

1.3.2 Constraints:

- a. Submittals listed or specified in this Contract shall conform to the provisions of this section, unless explicitly stated otherwise.
- b. Submittals shall be complete for each definable feature of work; components of the definable feature interrelated as a system shall be submitted at the same time.
- c. When acceptability of a submittal is dependent on conditions, items, or materials included in separate subsequent submittals, the submittal will be returned without review.
- d. Approval of a separate material, product, or component does not imply approval of assembly in which the item functions.

1.3.3 Scheduling:

- a. Coordinate scheduling, sequencing, preparing and processing of submittals with performance of the work so that work will not be delayed by submittal processing. Allow for potential requirements to resubmit.
- b. Except as specified otherwise, allow a review period, beginning with receipt by the approving authority, of 15 calendar days for submittals for QC Manager approval and 15 calendar days for submittals for Contracting Officer approval. The period of review for submittals with Contracting Officer approval begins when the Government receives the submittal from the QC organization. The period of review for each resubmittal is the same as for the initial submittal.

1.3.4 Variations: Variations from contract requirements require Government approval pursuant to Contract Clause entitled "FAR 52.236-21, Specifications and Drawings for Construction" and will be considered where advantageous to the Government. When proposing a variation, submit a written request to the Contracting Officer, with documentation of the nature and features of the variation and why the variation is desirable and beneficial to the Government. If lower cost is a benefit, also include an estimate of the cost saving. Identify the proposed variation separately and include the documentation for the proposed variation along with the required submittal for the item. When submitting a variation for approval, the Contractor certifies the following:

1.3.4.1 Variation Is Compatible: The Contract has been reviewed to establish that the variation, if incorporated, will be compatible with other elements of the work.

1.3.4.2 Review Schedule Is Modified: In addition to the normal submittal review period, a period of 15 working days will be allowed for consideration by the Government of submittals with variations.

1.3.5 Contractor's Responsibilities

- a. Determine and verify field measurements, materials, field construction criteria; review each submittal; and check and coordinate each submittal with requirements of the work and Contract documents.
- b. Transmit submittals to the QC organization in orderly sequence, in accordance with the Submittal Register, and to prevent delays in the work, delays to the Government, or delays to separate contractors.
- c. Advise the Contracting Officer of variation, as required by the paragraph entitled "Variations."
- d. Correct and resubmit submittal as directed by the approving authority. When resubmitting disapproved transmittals or transmittals noted for resubmittal, the Contractor shall provide a copy of that previously submitted transmittal including all reviewer comments for use by the approving authority.
- e. Direct specific attention, in writing or on resubmitted submittal, to revisions not requested by the approving authority on previous submissions.
- f. Furnish additional copies of submittals when requested by the Contracting Officer, to a limit of 20 copies per submittals.
- g. Complete work which must be accomplished as a basis of a submittal in time to allow the submittal to occur as scheduled.
- h. Ensure no work has begun until submittals for that work have been returned as "approved," or "approved as noted".

1.3.6 QC Organization Responsibilities:

- a. Note the date on which the submittal was received from the contractor on each submittal.

- b. Review each submittal; and check and coordinate each submittal with requirements of the work and Contract documents.
- c. Review submittals for conformance with project design concepts and compliance with the Contract documents.
- d. Act on submittals, determining the appropriate action based on the QC organization's review of the submittal.
 - (1) When the QC Manager is the approving authority, take the appropriate action on the submittal from the possible actions defined in the paragraph entitled, "Actions Possible."
 - (2) When the Contracting Officer is the approving authority or when a variation has been proposed, forward the submittal to the Government with the certifying statement or return the submittal marked "not reviewed" or "revise and resubmit" as appropriate. The QC organization's review of the submittal determines the appropriate action.
- e. Ensure that material is clearly legible.
- f. Stamp each transmittal sheet of each submittal with the QC certifying statement or approving statement, except that data submitted in bound volume or on one sheet printed on two sides may be stamped on the front of the first sheet only.
 - (1) When the approving authority is the Contracting Officer, the QC organization will certify submittals forwarded to the Contracting Officer with the following certifying statement:

"I hereby certify that the (equipment) (material) (article) shown and marked in this submittal is that proposed to be incorporated with Contract Number N62836-03-C-0176, is in compliance with the Contract drawings and specification, can be installed in the allocated spaces, and is submitted for Government approval.

Certified by Submittal Reviewer _____, Date _____
(Signature when applicable)

Certified by QC Manager _____, Date _____"
(Signature)

- (2) When the approving authority is the QC Manager, the QC manager will use the following approval statement when returning submittals to the Contractor as "Approved" or "Approved as Noted."

"I hereby certify that the (material) (equipment) (article) shown and marked in this submittal and proposed to be incorporated with Contract Number N62836-03-C-0176, is in compliance with the contract drawings and specification, can be installed in the allocated spaces, and is _____ approved for use.

Certified by Submittal Reviewer _____, Date _____
(Signature when applicable)

Approved by QC Manager _____, Date _____"
(Signature)

- g. Sign the certifying statement or approval statement. The person signing the certifying statements shall be the QC organization member designated in the approved QC plan. The signatures shall be in original ink with stamp. Stamped signatures are not acceptable.
- h. Update the submittal register as submittal actions occur and maintain the submittal register at the project site until final acceptance of all work by the Contracting Officer.
- i. Retain a copy of approved submittals at the project site, including the Contractor's copy of approved samples.

1.3.7 Government's Responsibilities: When the approving authority is the Contracting Officer, the Government will:

- a. Note the date on which the submittal was received from the QC Manager, and on each submittal for which the Contracting Officer is the approving authority. The Contractor shall date stamp with time.
- b. Review submittals for approval within the scheduling period specified and only for conformance with project design concepts and compliance with the Contract documents.
- c. Identify returned submittals with one of the actions defined in the paragraph entitled "Actions Possible" and with markings appropriate for the action indicated.

1.3.8 Actions Possible: Submittals will be returned with one of the following notations:

- a. Approved as submitted.
- b. Approved except as noted on drawings. Resubmission not required.
- c. Approved except as noted on drawings. Refer to attached sheet. Resubmission required.
- d. Will be returned by separate correspondence.
- e. Disapproved. See attached sheet.

1.4 FORMAT OF SUBMITTALS

1.4.1 Transmittal Form: Transmit each submittal, except sample installations and sample panels, to the office of the approving authority. Transmit submittals with a transmittal form (ATTACHMENT-1 and -2) prescribed by the Contracting Officer and standard for the project. The transmittal form shall identify the Contractor, indicate the date of the submittal, and include information prescribed by the transmittal form and required in the paragraph entitled "Identifying Submittals." Process transmittal forms to record actions regarding sample panels and sample installations.

1.4.2 Identifying Submittals: Identify submittals, except sample panel and sample installation, with the following information permanently adhered to or noted on each separate component of each submittal and noted on the transmittal form. Mark each copy of each submittal identically, with the following:

- a. Project title and location.
- b. Construction Contract number.
- c. The section number of the specification section by which the submittal is required.
- d. The submittal description (SD) number of each component of the submittal.
- e. When a resubmission, an alphabetic suffix on the submittal description, for example, SD-10A, to indicate the resubmission.

- f. The name, address, and telephone number of the subcontractor, supplier, manufacturer and any other second tier contractor associated with the submittal.
 - g. Product identification and location in project.
- 1.4.3 Format for Product Data:
- a. Present product data submittals for each section as a complete, bound volume. Include a table of contents listing page and catalog item numbers for product data.
 - b. Indicate, by prominent notation, each product which is being submitted; indicate the contract specification section number and paragraph number to which it pertains.
 - c. Supplement product data with material prepared for the project to satisfy submittal requirements for which product data does not exist. Identify this material as developed specifically for the project.
- 1.4.4 Format for Shop Drawings:
- a. Shop drawings shall not be less than A4 (297 x 210 mm) (8 1/2 by 11 inches) nor more than AO (1189 x 841 mm) (30 x 42 inches).
 - b. Present A4 (297 x 210 mm) (8 1/2 x 11 inches) sized shop drawings as a part of the bound volume for the submittals required by the section. Present larger drawings in sets.
 - c. Include on each drawing the drawing title, number, date, and revision numbers and dates, in addition to the information required in the paragraph entitled "Identifying Submittals."
 - d. Dimension drawings, except diagrams and schematic drawings; prepare drawings demonstrating interface with other trades to scale. Identify materials and products for work shown.
- 1.4.5 Format of Samples:
- a. Furnish samples in the sizes below, unless otherwise specified or unless the manufacturer has prepackaged samples of approximately the same size as specified:
 - (1) Sample of Equipment or Device: Full size.

- (2) Sample of Materials Less Than 50 by 75 mm (2 by 3 inches): Built up to A4 (297 x 210 mm) (8 1/2 by 11 inches).
 - (3) Sample of Materials Exceeding A4 (297 x 210 mm) (8 1/2 by 11 inches): Cut down to A4 (297 x 210 mm) (8 1/2 by 11 inches) and adequate to indicate color, texture, and material variations.
 - (4) Sample of Linear Devices or Materials: 250 mm (10 inch) length or length to be supplied, if less than 250 mm (10 inches). Examples of linear devices or materials are conduit and handrails.
 - (5) Sample of Non-Solid Materials: Pint. Examples of non-solid materials are sand and paint.
 - (6) Color Selection Samples: 50 by 100 mm (2 inches by 4 inches).
 - (7) Sample Panel: 1200 by 1200 mm (4 by 4 feet).
 - (8) Sample Installation: 10 square meters (100 square feet).
- b. Samples Showing Range of Variation: Where variations are unavoidable due to the nature of the materials, submit sets of samples of not less than three units showing the extremes and middle of the range.
 - c. Reusable Samples: Incorporate returned samples into the work only if so specified or indicated. Incorporated samples shall be in undamaged condition at the time of use.
 - d. Recording of Sample Installation: Note and preserve the notation of the area constituting the sample installation but remove the notation at the final clean up of the project.

1.4.6 Format of Administrative Submittals:

- a. When the submittal includes a document which is to be used in the project or become a part of the project record, other than as a submittal, do not apply the Contractor's approval stamp to the document, but to a separate sheet accompanying the document.

1.5 QUANTITY OF SUBMITTALS:

1.5.1 Number of Copies of Product Data:

- a. Submit four copies of submittals of product data requiring review and approval only by the QC organization and four copies of product data requiring review and approval by the Contracting Officer.
- b. Submit administrative submittals required under "SD-19, Operation and Maintenance Manuals."

1.5.2 Number of Copies of Shop Drawings: Submit shop drawings in compliance with the quantity requirements specified for product data.

1.5.3 Number of Samples:

- a. Submit two samples, or two sets of samples showing range of variation, of each required item. One approved sample or set of samples will be retained by the approving authority and one will be returned to the Contractor.
- b. Submit one sample panel. Include components listed in technical section or as directed.
- c. Submit one sample installation, where directed.
- d. Submit one sample of non-solid materials.

1.5.4 Number of Copies of Administrative Submittals:

- a. Unless otherwise specified, submit the administrative submittals compliance with the quantity requirements specified for product data.

1.6 SCHEDULE OF SUBMITTAL DESCRIPTIONS (SD):

SD-01, Data: Submittals which provide calculations, descriptions, or other documentation regarding the work.

SD-02, Manufacturer's Catalog Data: Data composed of catalog cuts, brochures, circulars, specifications and product data, and printed information in sufficient detail and scope to verify compliance with requirements of the contract documents. A type of product data.

SD-03, Manufacturer's Standard Color Charts: Preprinted illustrations displaying choices of color and finish for a material or product. A type of product data.

SD-04, Drawings: Submittals which graphically show relationship of various components of the work, schematic diagrams of systems, detail of fabrications, layout of particular elements, connections, and other relational aspects of the work. A type of shop drawing.

SD-05, Design Data: Design calculations, mix designs, analyses, or other data, written in nature and pertaining to a part of the work. A type of shop drawing.

SD-06, Instructions: Preprinted material describing installation of a product, system, or material, including special notices and Material Safety Data Sheets, if any, concerning impedances, hazards, and safety precautions. A type of product data.

SD-07, Schedules: A tabular list of data or tabular list including location, features, or other pertinent information regarding products, materials, equipment, or components to be used in the work. A type of shop drawing.

SD-08, Statements: A document, required of the Contractor, or through the Contractor by way of a supplier, installer, manufacturer, or other lower tier contractor, the purpose of which is to further the quality or orderly progression of a portion of the work by documenting procedures, acceptability of methods or personnel, qualifications, or other verification of quality. A type of shop drawing.

SD-09, Reports: Reports of inspection and laboratory test, including analysis and interpretation of test results. Each report shall be properly identified. Test methods used and compliance with recognized test standards shall be described.

SD-10, Test Reports: A report signed by an authorized official of a testing laboratory that a material, product, or system identical to the material, product or system to be provided has been tested in accordance with requirements specified by naming the test method and material. The test report must state the test was performed in accordance with the test requirements; state the test results; and indicate whether the material, product, or system has passed or failed the test. Testing must have been within three years of the date of award of this Contract. A type of product data.

SD-11, Factory Test Reports: A written report which includes the findings of a test required to be performed by the Contractor on an actual portion of the work or prototype prepared for this project before it is shipped to the job site. The report must be signed by an authorized official of a testing laboratory and must state the test was performed in accordance with the test requirements; state the test

results; and indicate whether the material, product, or system has passed or failed the test. A type of shop drawing.

SD-12, Field Test Reports: A written report which includes the findings of a test made at the job site, in the vicinity of the job site, or on a sample taken from the job site, on a portion of the work, during or after installation. The report must be signed by an authorized official of a testing laboratory or agency and must state the test was performed in accordance with the test requirements; state the test results; and indicate whether the material, product, or system has passed or failed the test. A type of shop drawing.

SD-13, Certificates: Statements signed by responsible officials of a manufacturer of a product, system, or material attesting that the product, system, or material meet specified requirements. The statements must be dated after the award of this contract, name the project, and list the specific requirements which it is intended to address. A type of shop drawing.

SD-14, Samples: Samples, including both fabricated and unfabricated physical examples of materials, products, and units of work as complete units or as portions of units of work. A type of sample.

SD-15, Color Selection Samples: Samples of the available choice of colors, textures, and finishes of a product or material, presented over substrates identical in texture to that proposed for the work. A type of sample.

SD-16, Sample Panels: An assembly constructed at the project site in a location acceptable to the Contracting Officer and using materials and methods to be employed in the work; completely finished; maintained during construction; and removed at the conclusion of the work or when authorized by the Contracting Officer. A type of sample.

SD-17, Sample Installations: A portion of an assembly or material constructed where directed and, if approved, retained as a part of the work. A type of sample.

SD-18, Records: Documentation to ensure compliance with an administrative requirement or to establish an administrative mechanism. A type of administrative submittal.

SD-19, Operation and Maintenance Manuals: Data intended to be incorporated in an Operations and Maintenance Manual. A type of administrative submittal.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 SUBMITTAL REGISTER INSTRUCTIONS: Use submittal register form for the project's Submittal Register and to track progress of submittals as they are processed.

1. The Government will supply submittal register forms, with columns (a) through (d) completed to the extent that will be required by the Government.

Column (a): Lists each specification section in which a submittal is required.

Column (b): Lists each submittal description (SD No. and type, e.g. SD-04, Drawings) required in each specification section. Follow each submittal description with the list of material or products to be addressed in each submittal description.

Column (c): Lists one principle paragraph in specification section where a material or product is specified. This listing is only to facilitate submittal reviews. Do not consider entries in column (c) as limiting project requirements; do not consider that a blank must be filled in by Contractor or the Government.

Column (d): Indicates approving authority for each submittal. A "R" indicates approval by ROICC; a "400" indicates approval by PWC Code 400; a A/E indicates approval by the private company who designs this project; a blank indicates approval by QC Manager.

Column (e): Indicates, for submittals to be approved by Contracting Officer, specific reviewers other than QC organization. This column may or may not be filled out on the copy supplied by the Government.

2. Column (f) through (i) will be used by Contractor, QC organization and the Government on their own copies to record data established by the Contractor.

Column (f): As submittals are processed, list a consecutive number assigned by Contractor for each group of submittals, Place this same number in the appropriate block of "Submittal Transmittal Form". For a resubmission, repeat transmittal control number of the original submittal with a suffix; e.g. No. 100B" is second resubmission of material originally transmitted under No. "100."

Column (g): List dates scheduled for approving authority to receive submittals. These dates are the scheduled beginnings of submittal review period. The Contractor proposes these dates and the Contracting Officer approves them to establish the approved Submittal Register.

Column (h) and (i): Use to record Contractor's review when forwarding submittals to the QC organization.

3. Column (j) through column (o) will be used by Contractor, QC organization, and the Government on their own copies, in the following manner:

Contractor

- a. Column (j): Enter date submittal is delivered to QC organization if QC Manager is approving authority or to the Government via QC organization if Contracting Officer is approving authority.
- b. Columns (k) and (l): No entries are required on Contractor's copy.
- c. Columns (m) and (n): Enter action and date of action by approving authority as shown on returned submittal.
- d. Column (o): Enter date QC organization receives submittal from Contractor.

QC organization

- a. Column (j): Enter date QC organization receives submittal from Contractor.
- b. Columns (k) and (l): If approving authority is Contracting Officer, enter date QC organization forwards certified submittal to Contracting Officer.
- c. Columns (m) and (n): If approving authority is Contracting Officer, enter the Government action and date of action as

shown on returned submittal. If approving authority is QC Manager, enter QC action and date of action.

- d. Column (o): Enter date QC organization returns submittal to Contractor, regardless of who is approving authority. If QC Manager is approving authority, it is also the date the information copy is forwarded to the Government.

Government

- a. Column (j): When Contacting Officer is approving authority, enter date submittals received from QC organization.
- b. Columns (k) and (l): When Contracting Officer is approving authority, enter date submittal is routed or received from specialized reviewer, such as fire protection engineer, architect-engineer, etc.
- c. Columns (m) and (n): When approving authority is Contacting Officer, enter the Government action and date of action. When approving authority is QC organization, enter QC Manager action and date of action, as indicated on information copy forwarded by QC organization.
- d. Column (o): When Contracting Officer is approving authority, enter date submittal is returned to Contractor via QC organization.

*** END OF SECTION ***

CONTRACTOR APPROVED SUBMITTALS (CQC)**CATALOG CUT / SHOP DRAWING TRANSMITTAL AND APPROVAL**

SUBMITTAL NO. _____

PART I (FOR CONTRACTOR USE)

FROM:

TO:

ROICC

CONTRACT NO.

N62836-

THE FOLLOWING ITEMS ARE SUBMITTED, PER SPECIFICATION SECTION NO. _____

ITEM NO. (A)	(USE SEPARATE FORM FOR EACH SPECIFICATION SECTION) (B)	CONTRACTOR ACTION (C)	ROICC ACTION (D)

CONTRACT SPECIFICATIONS REQUIRE FACTORY

INSPECTION

YES ☐NO ☐NEW SUBMITTAL ☐RESUBMITTAL ☐

SIGNATURE

DATE

PART II (FOR ROICC USE)

FROM:

TO:

ROICC

SIGNATURE

DATE

FROM:

TO:

ROICC

ENCLOSURES RETURNED: ACKNOWLEDGEMENT OR DISAPPROVAL INDICATED ABOVE (See Column "D")

SIGNATURE

DATE

ACTION CODES: THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS SUBMITTED: (A code letter will be inserted for each item in column D section I above.)

A. APPROVED AS SUBMITTED

C. APPROVED EXCEPT AS NOTED ON DRAWINGS. REFER
TO ATTACHED SHEET. RESUBMISSION REQUIRED.

E. DISAPPROVED SEE ATTACHED SHEET.

B. APPROVED EXCEPT AS NOTED ON
DRAWINGS. RESUBMISSION NOT
REQUIRED.

D. WILL BE RETURNED BY SEPARATE CORRESPONDENCE.

F. RECEIPT ACKNOWLEDGED.

NOTE: Approval of item does not relieve the contractor from complying with all the requirements of the contract plans and specifications.

42-03-0176

01330 ATTACHMENT-1

CATALOG CUT / SHOP DRAWING TRANSMITTAL AND APPROVAL

SUBMITTAL NO. _____

PART I (FOR CONTRACTOR USE)

FROM:

TO:

ROICC

CONTRACT NO.

N62836-

THE FOLLOWING ITEMS ARE SUBMITTED FOR REVIEW AND APPROVAL, PER SPECIFICATION SECTION NO. _____

ITEM NO. (A)	(USE SEPARATE FORM FOR EACH SPECIFICATION SECTION) (B)	A / E Recommendation (C)	ROICC ACTION (D)

CONTRACT SPECIFICATIONS REQUIRE FACTORY
INSPECTIONYES ☐NO ☐NEW SUBMITTAL ☐RESUBMITTAL ☐

SIGNATURE

DATE

PART II (FOR ROICC USE)

FROM:

TO:

ROICC

REQUEST YOU REVIEW ABOVE ITEMS AND MAKE RECOMMENDATION AS REQUIRED IN A/E CONTRACT N62836.

SIGNATURE

DATE

PART III (FOR DESIGNER USE)

FROM:

TO:

ROICC

ITEM HAS BEEN REVIEWED. THE FOLLOWING RECOMMENDATION IS MADE AS NOTED ABOVE. (See Column "C")

COMMENTS:

SIGNATURE

DATE

PART IV (FOR ROICC USE)

FROM:

TO:

ROICC

ENCLOSURES RETURNED: APPROVAL OR DISAPPROVAL INDICATED ABOVE (See Column "D")

ACTION CODES: THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS SUBMITTED: (A code letter will be inserted for each item in column D section I above.)

A. APPROVED AS SUBMITTED

C. APPROVED EXCEPT AS NOTED ON DRAWINGS. REFER
TO ATTACHED SHEET. RESUBMISSION REQUIRED.

E. DISAPPROVED SEE ATTACHED SHEET.

B. APPROVED EXCEPT AS NOTED ON
DRAWINGS. RESUBMISSION NOT
REQUIRED.

D. WILL BE RETURNED BY SEPARATE CORRESPONDENCE.

NOTE: Approval of item does not relieve the contractor from complying with all the requirements of the contract plans and specifications.

SIGNATURE

DATE

SUBMITTAL REGISTER (PART A)

Contract Number N62836-03-C-0176

Project Title: REPAIR PICNIC AREA AND EROSION, IKEGO

SPEC SECTION NO	SD NO. AND TYPE OF SUBMITTAL-MATL OR PRODUCTS	SPEC PARA NO.	CLASSIF / APPR BY CO*	GOV OR A/E REVIEW- ER	TRANS CONTRO L NO.	PLANNED SUBMIT- TAL DATE
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1) 01330	SD-18, Submittal resister	1.2.1.a	R			
2) 01450	SD-18, Quality control plan	1.2.1.a	R			
3) 01525	SD-13, Accident prevention plan	1.3.1.a	R			
4)	SD-13, Activity hazardous analysis	1.3.1.b	R			
5)	SD-13, Health and safety plan	1.3.1.c	R			
6) 01560	SD-13, Environmental protection plan	1.3.1	R			
7) 01801	SD-08, Notification for entering with crane	1.2.a	R			
8)	SD-13, Certification for equipment	1.2.b	R			
9)	SD-13, Certification for operators	1.2.c	R			
10)	Accident report	1.2.d	R			
11)13121	SD-02, Gazebo	1.2.1.a	400			
12)	SD-02, Table with benches	1.2.1.b	400			

* Notes: Approved by: R: ROICC /400: Code 400 / Blank: QC Manager

SUBMITTAL RESISTER (PART B)

Location:

Contractor:

CONTRACTOR ACTION			APPROVING AUTHORITY ACTION				CONTR	
ACT CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/DATE RECD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RECD FROM OTHER REVIEWER	ACT. CODE	DATE OF ACTION	MAILED TO CONTR/ RECD FROM APPR AUTH	REMARKS
(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)

								1)
								2)
								3)
								4)
								5)
								6)
								7)
								8)
								9)
								10)
								11)
								12)

ACTION CODES: NR: Not Reviewed \AN: Approved as Noted \A: Approved \
 RR: Disapproved; Revise and Resubmit (Others may be prescribed by the Transmittal
 Form)

SECTION 01450

QUALITY CONTROL

PART 1 GENERAL

1.1 REFERENCES: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 Japanese Science and Technology Agency Publication:

2000-2001 List of Testing Laboratories
 (Zen-koku Shiken Kenkyu Kikan Meikan)

June 2000 NAVFAC P-445 Construction Control Quality
 Management Program

1.2 SUBMITTALS: Submit the following in accordance with Section 01330, "Submittal Procedures."

1.2.1 SD-18, Records:

- a. Quality Control (QC) Plan: Submit a QC plan within 15 calendar days after the date of Award.

1.3 INFORMATION FOR THE CONTRACTING OFFICER: Deliver the following to the Contracting Officer:

- a. Combined Contractor Production Report (2 sheet, ATTACHMENT-1 and 2)/Contractor Quality Control Report (2 sheets, ATTACHMENT-3 and 4): Original, by 10:00 AM the next working day after each day that work is performed;
- b. Field Test Reports: 1 copy, within 2 working days after the test is performed, attached to the Contractor Quality Control Report;
- c. Monthly Summary Report of Tests: 1 copy attached to the Contractor Quality Control Report;
- d. Testing Plan and Log (1 sheet, ATTACHMENT-11): 1 copy, at the end of each month;
- e. Rework Items List (1 sheet, ATTACHMENT-10): 1 copy, by the last working day of the month

- f. QC Meeting Minutes: 1 copy, within 2 working days after the meeting and;
- g. QC Certifications: As required by paragraph 1.10, entitled "QC CERTIFICATIONS."
- h. Monthly man-hour report

1.4 QC PROGRAM REQUIREMENTS: Establish and maintain a QC program as described in this section. The QC program consists of a QC Organization, a QC Plan, a Coordination and Mutual Understanding Meeting, three phases of control, submittal review and approval, testing, and QC certifications and documentation necessary to provide materials, equipment, workmanship, fabrication, construction and operations which comply with the requirements of this Contract. The QC program shall cover on-site and off-site work and shall be keyed to the work sequence.

1.4.1 Preliminary Work Authorized Prior to Approval: The only work that is authorized to proceed prior to the approval of the QC Plan is mobilization of storage and office trailers, temporary utilities, and surveying.

1.4.2 Approval: Approval of the QC Plan is required prior to the start of construction. The Contracting Officer reserves the right to require changes in the QC Plan and operations as necessary to ensure the specified quality of work. The Contracting Officer reserves the right to interview any member of the QC organization at any time in order to verify the submitted qualifications.

1.4.3 Notification of Changes: Notify the Contracting Officer, in writing, of any proposed change, including changes in the QC organization personnel, a minimum of seven calendar days prior to a proposed change. Proposed changes must be approved by the Contracting Officer.

1.5 QC ORGANIZATION:

1.5.1 QC Manager:

1.5.1.1 Duties: Provide a QC Manager at the work site to implement and manage the QC program. If the Contractor requests approval from the Contracting Officer, the QC Manager may perform the duties of project superintendent.

The QC Manager is required to be on the job site while work is in progress, and to attend the Coordination and Mutual understanding Meeting, conduct the QC meetings, perform the three phases of control, perform submittal review, perform submittal approval, ensure testing is performed and provide QC certifications and documentation required in this Contract. The QC Manager is responsible for managing and coordinating the three phases of control and documentation performed by Testing Laboratory personnel and any other inspection and testing personnel required by this contract. The QC Manager shall provide the documentation at the meeting in the form of meeting minutes on the prescribed forms covering the topics which the attendees are scheduled to discuss at the meeting.

1.5.1.2 Qualifications: An individual with a minimum of 5 years experience as a superintendent, inspector, QC Manager, project manager, or construction manager on similar size or larger and type construction contracts which included the major trades that are part of this Contract or equivalent qualification approved by the local law.

1.5.1.3 Construction Quality Management Training: In addition to the above experience requirements, the QC manager shall have attended and completed ROICC Yokosuka's "Construction Quality Management (CQM)" course or equivalent. If the QC Manager does not have a current certification, they shall obtain CQM course certification after the award. Submit the proof of completion of the course to the Contracting Officer attached to his QC plan.

1.5.2 Alternate QC Manager Duties and Qualifications: Designate an alternate for the QC Manager at the work site to serve in the event of the designated QC Manager's absence i.e. vacation, illness, only. The period of absence may not exceed two weeks at one time, and not more than 30 workdays during a calendar year. The qualification requirements for the Alternate QC Manager shall be the same as for the QC manager. Alternate QC manager shall not routinely fill in for QC manager to leave the job site.

1.5.3 INTERPRETER: The Contractor shall furnish the service of an interpreter on the job. This interpreter shall have strong knowledge of the English language in terms of writing, listening, speaking and reading skills. Interpreter's English skills shall also be well suited to the construction industry. If at any time the Contracting Officer feels the Contractor's interpreter is unable to perform the duties required of him/her, the Contracting Officer will ask for his/her immediate replacement. When the QC manager or the project

superintendent talks with the Government people, the interpreter shall be accompanied with his/her.

1.5.4 Submittal Reviewers: Duties and Qualifications: Provide Submittal Reviewers, qualified in the disciplines being reviewed, to review and certify that the submittals meet the requirements of this Contract prior to certification or approval by the QC Manager.

Each submittal shall be reviewed by an individual, with 5 years of construction experience in similar size and type.

1.6 QUALITY CONTROL (QC) PLAN:

1.6.1 Requirements: Provide for approval by the Contracting Officer, a QC plan submitted with pages numbered sequentially that covers, both on-site and off-site work and includes, the following:

- a. A table of contents listing the major sections identified with tabs in the following order:
 - I. QC ORGANIZATION
 - II. NAMES AND QUALIFICATIONS
 - III. DUTIES, RESPONSIBILITY AND AUTHORITY OF QC PERSONNEL
 - IV. OUTSIDE ORGANIZATIONS
 - V. APPOINTMENT LETTERS
 - VI. SUBMITTAL PROCEDURES AND INITIAL SUBMITTAL REGISTER
 - VII. TESTING LABORATORY INFORMATION
 - VIII. TESTING PLAN AND LOG
 - IX. PROCEDURES TO COMPLETE REWORK ITEMS
 - X. DOCUMENTATION PROCEDURES
 - XI. QUALITY CONTROL CHECKLIST
 - XII. PERSONNEL MATRIX
- b. A chart showing the QC organizational structure and its relationship to the production side of the organization.
- c. Names and qualifications, in resume format, for each person in the QC organization.
- d. Duties, responsibilities and authorities of each person in the QC organization.
- e. A listing of outside organizations such as, architectural and consulting engineering firms that will be employed by the Contractor and a description of the services these firms will provide.

- f. A letter signed by an officer of the firm appointing the QC Manager and stating that he/she is responsible for managing and implementing the QC program as described in this contract. Include in this letter the QC Manager's authority to direct the removal and replacement of non-conforming work.
- g. Procedures for reviewing, approving and managing submittals. Provide the names of the persons in the QC organization authorized to review and certify submittals prior to approval. Provide the initial submittal or the Submittal Register as specified in Section 01330, "Submittal Procedures."
- h. Testing laboratory information required by the paragraphs entitled "Testing Laboratory Requirements", as applicable.
- i. A Testing Plan and Log that includes the tests required, referenced by the specification paragraph number requiring the test, the frequency, and the person responsible for each test.
- j. Procedures to identify, record, track and complete rework items.
- k. Documentation procedures, including proposed report formats. (ATTACHMENT-5 and -6)
- l. A Quality Control Checklist that includes:
 - List of definable features of work, following the order of specification sections. Definable feature of work is a task which is separate and distinct from other tasks, and requires separate control procedures. It could be identified by different trades or disciplines, or by separate work activities. Although each section may generally be considered as a definable feature of work, there are frequently more than one definable feature under a particular section. This list will be agreed upon during the coordination and mutual understanding meeting.
 - List of construction contract numbers assigned to each preparatory, initial and follow-up phases for each definable feature of work in the construction schedule;

- Schedule showing planned and actual dates of the preparatory, initial and follow-up phases for each definable feature of work, including testing and any other inspection required by this contract; and
- Procedures to be followed in preparatory, initial and follow-up phases.

1.7 THREE PHASES OF CONTROL: The Three Phases of Control shall adequately cover both on-site and off-site work and shall include the following for each definable features of work.

1.7.1 Preparatory Phase: Notify the Contracting Officer at least 2 work days in advance of each preparatory phase. Conduct the preparatory phase with the superintendent, the foreman responsible for the definable feature, and the Government construction representative. The Contractor shall provide documentation at the meeting in the form of meeting minutes on the prescribed forms covering the topics to be discussed. Document the results of the preparatory phase actions in the daily Contractor Quality Control Report and in the Quality Control Checklist (ATTACHMENT-7 and -8). Perform the following prior to beginning work on each definable feature of work:

- a. Review each paragraph of the applicable specification sections;
- b. Review the Contract drawings;
- c. Verify that appropriate shop drawings and submittals for materials and equipment have been submitted and approved. Verify receipt of approved factory test results, when required;
- d. Review the testing plan and ensure that provisions have been made to provide the required QC testing;
- e. Examine the work area to ensure that the required preliminary work has been completed;
- f. Examine the required materials, equipment and sample work to ensure that they are on hand and conform to the approved shop drawings and submitted data;
- g. Review the safety plan and appropriate activity hazard analysis to ensure that applicable safety requirements are

met, and that required Material Safety Data Sheets (MSDS) are submitted; and

- h. Discuss construction methods and the approach that will be used to provide quality construction through problem avoidance for each definable feature of work.

1.7.2 Initial Phase: Notify the Contracting Officer at least 5 work days in advance of each initial phase. When construction crews are ready to start work on a definable feature of work, conduct the initial phase with the superintendent, and the foreman responsible for that definable feature of work. Observe the initial segment of the definable feature of work to ensure that the work complies with Contract requirements. Document the results of the initial phase in the daily Contractor Quality Control Report and in the Quality Control Checklist (ATTACHMENT-9). Repeat the initial phase for each new crew to work on-site, or when acceptable levels of specified quality are not being met. Perform the following for each definable feature of work:

- a. Establish the quality of workmanship required;
- b. Resolve conflicts;
- c. Review the Safety Plan and the appropriate activity hazard analysis to ensure that applicable safety requirements are met; and
- d. Ensure that testing is performed by the approved laboratory.

1.7.3 Follow-Up Phase: Perform the following for on-going work daily, or more frequently as necessary until the completion of each definable feature of work and document in the daily Contractor Quality Control Report and in the Quality Control Checklist:

- a. Ensure the work is in compliance with Contract requirements;
- b. Maintain the quality of workmanship required;
- c. Ensure that testing is performed by the approved laboratory; and
- d. Ensure that rework items are being corrected.

1.7.4 Notification of Three Phases of Control for Off-Site Work: Notify the Contracting Officer at least two weeks prior to the start of the preparatory and initial phases.

1.8 SUBMITTAL REVIEW AND APPROVAL : Procedures for submission, review and approval of submittals are described in Section 01330, "Submittal Procedures."

1.9 TESTING: Except as stated otherwise in the specification sections, perform sampling and testing required under this Contract.

1.9.1 Testing Laboratory Requirements: Provide an independent testing laboratory which is listed on "List of Testing Laboratories (Zen-koku Shiken Kenkyu Kikan Meikan)".

1.9.2 Inspection of Testing Laboratories: Prior to approval of non-listed laboratories, the proposed testing laboratory facilities and records may be subject to inspection by the Contracting Officer. Records subject to inspection include equipment inventory, equipment calibration dates and procedures, library of test procedures, audit and inspection reports by agencies conducting laboratory evaluations and certifications, testing and management personnel qualifications, test report forms, and the internal QC procedures.

1.9.3 Capability Check: The Contracting Officer retains the right to check laboratory equipment in the proposed laboratory and the laboratory technician's testing procedures, techniques, and other items pertinent to testing, for compliance with the standards set forth in this Contract.

1.9.4 Test Results: Cite applicable Contract requirements, tests and analytical procedures used. Provide actual results and include a statement that the item tested or analyzed conforms or fails to conform to specified requirements. If item fails to conform, notify Contracting Officer immediately. Conspicuously stamp the cover sheet for each report in large red letters "CONFORMS" or "DOES NOT CONFORM" to the specification requirements, whichever is applicable. Test results shall be signed by a testing laboratory representative authorized to sign certified test reports. Furnish the signed reports with stamp, certifications, and other documentation to the Contracting Officer via the QC Manager. Furnish a summary report of field tests at the end of each month. Attach a copy of the summary report to the last daily Contractor Quality Control Report of each month.

1.9.5 Test Reports and Monthly Summary Report of Tests: The QC Manager shall furnish the signed reports, certifications, and a

summary report of field tests at the end of each month to the Contracting Officer. Attach a copy of the summary report to the last daily Contractor Quality Control Report of each month.

1.10 QC CERTIFICATIONS:

1.10.1 Contractor Quality Control Report Certification: Each Contractor Quality Control Report shall contain the following statement: "On behalf of the Contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge, except as noted in this report".

1.10.2 Invoice Certification: Furnish a certificate to the Contracting Officer with each payment request, signed by the QC Manager, attesting that as-built drawings are current and attesting that the work for which payment is requested, including stored material, is in compliance with contract requirements.

1.10.3 Completion Certification: Upon completion of work under this Contract, the QC Manager shall furnish a certificate to the Contracting Officer attesting that "the work has been completed, inspected, tested and is in compliance with the Contract".

1.11 DOCUMENTATION: Maintain current and complete records of on-site and off-site QC program operations and activities.

1.11.1 Contractor Production Report: Reports are required for each day that work is performed and shall be attached to the Contractor Quality Control Report prepared for the same day. Account for each calendar day throughout the life of the Contract. The reporting of work shall be identified by terminology consistent with the construction schedule. Contractor Production Reports are to be prepared, signed and dated by the project superintendent and shall contain the following information:

- a. Date of report, report number, name of contractor, Contract number, title and location of Contract and superintendent present.
- b. Weather conditions in the morning and in the afternoon including maximum and minimum temperatures.

- c. A list of Contractor and subcontractor personnel on the work site, their trades, employer, work location, description of work performed and hours worked.
- d. A list of job safety actions taken and safety inspections conducted. Indicate that safety requirements have been met including the results on the following:
 - Was a job safety meeting held? (If YES, attach a copy of the meeting minutes.)
 - Were there any lost time accidents? (If YES, attach a copy of the completed OSHA report.)
 - Was crane/trenching/scaffold/high voltage electrical/high work done? (If YES, attach a statement or checklist showing inspection performed.)
 - Was hazardous material/waste released into the environment? (If YES, attach a description of meetings held and accidents that happened.)
- e. A list of equipment/material received each day that is incorporated into the job.
- f. A list of construction and plant equipment on the work site including the number of hours used, idle and down for repair.
- g. Include a "remarks" section in this report which will contain pertinent information including directions received, problems encountered during construction, work progress and delays, conflicts or errors in the drawings or specifications, field changes, safety hazards encountered, instructions given and corrective actions taken, delays encountered and a record of visitors to the work site.

1.11.2 Contractor Quality Control Report: Reports are required for each day that work is performed and for every seven consecutive calendar days of no-work and on the last day of a no-work period. Account for each calendar day throughout the life of the Contract. The reporting of work shall be identified by terminology consistent with the construction schedule. Contractor Quality Control Reports are to be prepared, signed and dated by the QC Manager and shall contain the following information:

- a. Identify the control phase and the definable feature of work.

- b. Results of the Preparatory Phase meetings held including the location of the definable feature of work and a list of personnel present at the meeting. Indicate in the report that for this definable feature of work, the drawings and specifications have been reviewed, submittals have been approved, materials comply with approved submittals, materials are stored properly, preliminary work was done correctly, the testing plan has been reviewed, and work methods and schedule have been discussed.
- c. Results of the Initial Phase meetings held including the location of the definable feature of work and a list of personnel present at the meeting. Indicate in the report that for this definable feature of work the preliminary work was done correctly, samples have been prepared and approved, the workmanship is satisfactory, test results are acceptable, work is in compliance with the Contract, and the required testing has been performed and include a list of who performed the tests.
- d. Results of the Follow-up Phase inspections held including the location of the definable feature of work. Indicate in the report for this definable feature of work that the work complies with the Contract as approved in the Initial Phase, and that required testing has been performed and include a list of who performed the tests.
- e. Results of the three phases of control for off-site work, if applicable, including actions taken.
- f. List the rework items identified, but not corrected by close of business.
- g. List the rework items corrected from the rework items list along with the corrective action taken.
- h. Include a "remarks" section in this report which will contain pertinent information including directions received, quality control problem areas, deviations from the QC plan, construction deficiencies encountered, QC meetings held, acknowledgement that as-built drawings have been updated, corrective direction given by the QC Organization and corrective action taken by the Contractor.
- i. Contractor Quality Control Report certification.

1.11.3 Testing Plan and Log: As tests are performed, the QC Manager shall record on the "Testing Plan and Log" the date the test was conducted, the date the test results were forwarded to the Contracting Officer, remarks and acknowledgment that an Contracting Officer approved testing laboratory was used. Attach a copy of the updated "Testing Plan and Log" to the last daily Contractor Quality Control Report of each month.

1.11.4 Rework Items List: The QC Manager shall maintain a list of work that does not comply with the Contract, identifying what items need to be reworked, the date the item was originally discovered, and the date the item was corrected. There is no requirement to report a rework item that is corrected the same day it is discovered. Attach a copy of the "Contractor Rework Items List" to the last daily Contractor Quality Control Report of each month. The Contractor shall be responsible for including on this list items needing rework including those identified by the Contracting Officer.

1.11.5 As-Built Drawings: The QC Manager is required to review the as-built drawings to ensure that as-built drawings are kept current on a daily basis and marked to show deviations which have been made from the Contract drawings, and to keep them at all times during work performance. The QC Manager shall initial each deviation and each revision. Upon completion of work, the QC Manager shall furnish a certificate attesting to the accuracy of the as-built drawings prior to submission to the Contracting Officer.

1.11.6 Report Forms: All reports shall be provided to the Contracting Officer in computer-generated or typewriter written. Electronic copies of these forms are available upon request from the ROICC Office. No hand-written reports will be accepted. The following forms, which are attached at the end of this section, are acceptable for providing the information required by the paragraph entitled "Documentation". While use of these specific formats are not required, any other format used shall contain the same information:

- a. Combined Contractor Production Report and Contractor Quality Control Report (1 sheet), with separate continuation sheet.
- b. Testing Plan and Log.
- c. Deficiency Status Log (Rework Items List).

1.12 NOTIFICATION ON NON-COMPLIANCE: The Contracting Officer will notify the Contractor of any detected non-compliance with the foregoing requirements. The contractor shall take immediate

corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time for excess costs or damaged by the Contractor.

PART 2 PRODUCTS and PART 3 EXECUTION

Not used.

*** END OF SECTION ***

CONTRACTOR QUALITY CONTROL REPORT				DATE	
(ATTACH ADDITIONAL SHEETS IF NECESSARY)				REPORT NO	
PHASE	CONTRACT NO	CONTRACT TITLE			
PREPARATION	WAS PREPARATORY PHASE WORK PERFORMED TODAY? YES <input type="checkbox"/> NO <input type="checkbox"/>				
	IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECK LIST				
	Schedule Activity No.	Definable Feature of work	Index #		
INITIAL	WAS INITIAL PHASE WORK PERFORMED TODAY? YES <input type="checkbox"/> NO <input type="checkbox"/>				
	IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECK LIST				
	Schedule Activity No.	Definable Feature of work	Index #		
FOLLOW-UP	WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES <input type="checkbox"/> NO <input type="checkbox"/>				
	WORK COMPLIES WITH SAFETY REQUIREMENTS? YES <input type="checkbox"/> NO <input type="checkbox"/>				
	Schedule Activity No.	Definable Feature of work			
		Section, Location and List of Personnel Present			
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)			REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)		
Schedule Activity No.	Description	Schedule Activity No.	Description		
REMARKS (Also Explain Any follow-up Phase Checklist From Above That Was Answered "No"), Manuf. Rep On-Site, etc					
Schedule Activity No.	Description				
On behalf of the contractor, I certify that this report is complete and correct and equipment and material Used and work performed during this reporting period is in compliance with the contract drawings and Specifications to the best of my knowledge except as noted in this report.					
AUTHORIZED QC MANAGER SITE				DATE	
GOVERNMENT QUALITY ASSURANCE REPORT				DATE	
QUALITY ASSURANCE REPRESENTATIVES REMARKS ANOTHER EXCEPTIONS TO THE REPORT					
GOVERNMENT QUALITY ASSURANCE MANAGER				DATE	

CONTRACTOR QUALITY CONTROL REPORTS (CONTINUATION SHEET) (ATTACH ADDITIONAL SHEET IF NECESSARY)		DATE
		REPORT NO.
PHASE	CONTRACT NO	CONTRACT TITLE
INITIAL PHASE (CONTINUATION)	WAS INITIAL PHASE WORK PREFORMED TODAY? YES <input type="checkbox"/> NO <input type="checkbox"/>	
	IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.	
	Schedule Activity No.	Definable Feature of Work
	REMARKS (Also Explain Any Checklist Item From Above That Answered "NO"). Manufacturer's Rep. On-site, etc.	
	Schedule Activity No.	Description

CONTRACTOR QUALITY CONTROL REPORTS (CONTINUATION SHEET) (ATTACH ADDITIONAL SHEET IF NECESSARY)		DATE
		REPORT NO.
PHASE	CONTRACT NO	CONTRACT TITLE
PREPARATORY PHASE (CONTINUATION)	WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES <input type="checkbox"/> NO <input type="checkbox"/>	
	IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.	
	Schedule Activity No.	Definable Feature of Work
	REMARKS (Also Explain Any Checklist Item From Above That Answered "NO"). Manufacturer's Rep. On-site, etc.	
	Schedule Activity No.	Description

CONTRACTOR QUALITY CONTROL REPORTS (CONTINUATION SHEET) (ATTACH ADDITIONAL SHEET IF NECESSARY)		DATE
		REPORT NO.
PHASE	CONTRACT NO	CONTRACT TITLE
FOLLOW-UP (CONTINUATION)	WORK COMPLIES WITH CONTRACT AS APPROVED SURING INITIAL PHASE YES <input type="checkbox"/> NO <input type="checkbox"/>	
	WORK COMPLIES WITH SAFETY REQUIREMENTS? YES <input type="checkbox"/> NO <input type="checkbox"/>	
	Schedule Activity No.	Description of Work, Testing Performed By Whom, Definable of Work, Specification Section, Location and List of Personnel Present
	REMARKS (Also Explain Any Checklist Item From Above That Answered "NO"). Manufacturer's Rep. On-site, etc.	
	Schedule Activity No.	Description

TESTING	IDENTIFY TEST TO BE PERFORMED, FREQUENCY, AND BY WHOM.	
	WHEN REQUIRED?	
	WHERE REQUIRED?	
	REVIEW TESTING PLAN.	
SAFETY	HAS TEST FACILITIES BEEN APPROVED?	
MEETING COMMENTS	ACTIVITY HAZARD ANALYSIS APPROVED? YES <input type="checkbox"/> NO <input type="checkbox"/>	
	REVIEW APPLICABLE PORTION OF EM 385-1-1.	
OTHER ITEMS OR REMARKS	NAVY/ROICC COMMENTS DURING MEETING.	
		QC MANAGER _____ DATE _____

INITIAL PHASE CHECK LIST		SPEC SECTION	DATE
CONTRACT NO	DEFINABLE FEATURE CHECK	SCHEDULE ACT NO	INDEX#
PERSONNEL PRESENT	GOVERNMENT REP NOTIFIED ____ HOURS IN ADVANCE : YES <input type="checkbox"/> NO <input type="checkbox"/>		
	NAME	POSITION	COMPANY GOVERNMENT
PROCEDURE COMPLIANCE	IDENTIFY FULL COMPLIANCE WITH PROCEDURES IDENTIFIED AT PREPARATORY. COORDINATE PLANS SPECIFICATIONS AND SUBMITTALS		
	COMMENTS: _____		
PRELIMINARY WORK	ENSURE PRELIMINARY WORK IS COMPLETE AND CORRECT.. IF NOT, WHAT ACTION IS TAKEN?		
WORKMANSHIP	ESTABLISH LEVEL OF WORKMANSHIP		
	WHERE IS WORK LOCATED? _____		
	IS SAMPLE PANEL REQUIRED? YES <input type="checkbox"/> NO <input type="checkbox"/>		
	WILL THE INITIAL WORK BE CONSIDERED AS A SAMPLE? YES <input type="checkbox"/> NO <input type="checkbox"/> (IF YES, MAINTAIN IN PRESENT CONDITION AS LONG AS POSSIBLE AND DESCRIBE LOCATION OF SAMPLE)		
RESOLUTION	RESOLVE ANY DIFFERENCE		
	COMMENTS: _____		
CHECK SAFETY	REVIEW JOB CONDITION USING EM 385-1-1 AND JOB HAZARD ANALYSIS		
	COMMENTS: _____		
OTHER	OTHER ITEMS OR REMARKS		
<div style="display: flex; justify-content: space-between;"> <div>QC MANAGER _____</div> <div>DATE _____</div> </div>			

REV DATE: 9/98

SHEET

OF

REWORK ITEMS LIST

Contractor No. and Title:

Contractor:

[illegible]

42963/3 9/98

SHEET OF

[illegible]

SECTION 01525

SAFETY REQUIREMENTS

PART 1 GENERAL

1.1 REFERENCES: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):

ANSI A10.14 (1991) Construction and Demolition Operations
Requirements for Safety Belts, Harnesses,
Lanyards and Lifelines for Construction and
Demolition Use

ANSI Z359.1 (1992) Safety Requirements for Personal Fall
Arrest Systems

1.1.2 CODE OF FEDERAL REGULATIONS (CFR):

29 CFR 1910.94 Ventilation

29 CFR 1910.120 Hazardous Waste Operations and Emergency
Response

29 CFR 1926.65 Hazardous Waste Operations and Emergency
Response

29 CFR 1926.502(f) Warning Line Systems

1.1.3 U. S. ARMY CORPS OF ENGINEERS (USACE):

COE EM-385-1-1 (1996) Safety and Health Requirements
Manual

1.1.4 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):

NFPA 10 (1995) Portable Fire Extinguishers

NFPA 70 (2002) National Electrical Code

NFPA 241 (1996) Safeguarding Construction,
Alteration, and Demolition Operations

1.1.5 Japanese Laws:

Industrial Safety and Health Law, Article 81
("Rou-dou Anzen Eisei Hou")

1.2 DEFINITIONS:

a. Certified Industrial Hygienist: An industrial hygienist is an individual who is certified by the American Board of Industrial Hygiene or an equivalent person who has a qualification as the labor hygiene consultant ("Rodou-eisei Konsarutanto") certified by the Industrial Safety Law, Japan.

b. Certified Safety Professional: A safety manager, safety specialist, or safety engineer that has passed the CSP exam administered by the Board of Certified Safety Professionals, or an equivalent person who has a qualification as the labor safety consultant ("Rodou-anzen Konsarutanto") certified by the Industrial Safety Law, Japan..

c. Competent Person: A competent person is one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

d. First Aid: First aid is any one-time treatment, and any follow-up visit for the purpose of observation, of minor scratches, cuts, burns, splinters, and so forth, which do not ordinarily require medical care, even though provided by a physician or registered professional personnel.

e. Health and Safety Plan (HASP): The HASP is the Navy equivalent Army term of SHP or SSHP used in COE EM-385-1-1. "USACE" property and equipment specified in COE EM-385-1-1 should be interpreted as Government property and equipment.

f. Lost Workdays: The number of days (consecutive or not) after, but not including, the day of injury or illness during which the employee would have worked but could not do so; that is, could not perform all or part of his normal assignment during all or any part of the workday or shift; because of the occupational injury or illness.

g. Medical Treatment: Medical treatment includes treatment administered by a physician or by registered professional personnel under the standing orders of a physician. Medical treatment does not include first aid treatment even through provided by a physician or registered personnel.

h. Multi-employer work site (MEWS): A multi-employer work site, as defined by OSHA, is one in which many employers occupy the same site. The Navy considers the prime contractor to be the "controlling authority" for all work site safety and health of the subcontractors.

i. Qualified Person: One who, by possession of a recognized degree, certificate, or professional standing, or extensive knowledge, training, and experience, has successfully demonstrated his or her

ability to solve or resolve problems related to the subject matter, the work or the project.

j. Recordable Occupational Injuries or Illnesses: Any occupational injuries or illnesses which result in:

(1) Fatalities, regardless of the time between the injury and death, or the length of the illness; or

(2) Lost Workday Cases, other than fatalities, that result in lost workdays, or

(3) Non-Fatal Cases without lost workdays which result in transfer to another job or termination of employment, or require medical treatment (other than first aid) or involve: loss of consciousness or restriction of work or motion. This category also includes any diagnosed occupational illnesses which are reported to the employer but are not classified as fatalities or lost workday cases.

k. Safety Officer: The superintendent or other qualified or competent person who is responsible for the on-site safety required for the project. The contractor quality control person cannot be the safety officer, even though the QC has safety inspection responsibilities as part of the QC duties.

l. Serious Accidents. Any work-related incident, which results in, a fatality, in-patient hospitalization of three or more employees, or property damage in excess of ¥20,000,000.

m. Significant Accident. Any contractor accident which involves falls of 1.2 m or more, electrical accidents, equipment accidents, crane accident or fire accidents, which, result in property damage of ¥1,000,000 or more, but less than ¥20,000,000; or when fire department or emergency medical treatment (EMT) assistance is required.

1.3 SUBMITTALS: Submit the following in accordance with Section 01330, "Submittal Procedures."

1.3.1 SD-13 Certificates:

- a. Accident Prevention Plan (APP);
- b. Activity Hazard Analysis (AHA);
- c. Health and Safety Plan (HASP);

1.4 QUALITY ASSURANCE:

1.4.1 Qualifications:

- a. Qualifications of Safety Officer:

(1) Ability to manage the on-site contractor safety program through appropriate management controls.

(2) Ability to identify hazards and have the capability to expend resources necessary to abate the hazards.

(3) Must have worked on similar types of projects that are equal to or exceed the scope of the project assigned with the same responsibilities.

(4) Shall, as a minimum, have the qualification required by "Roudou Anzen Eisei-hou, 15-jou" (the Labor and Safety Health Law, Japan).

1.4.2 Meetings:

1.4.2.1 Preconstruction Conference: The safety officer shall attend the preconstruction conference.

1.4.2.2 Meeting on Work Procedures:

a. Meet with Contracting Officer to discuss work procedures and safety precautions required by the APP. Ensure the participation of the contractor's superintendent, the quality control, and the CSP or CIH.

b. Meet with Contracting Officer to discuss work procedures and safety precautions required by the HASP. Ensure the participation of the contractor's superintendent, the quality control, and the CSP or CIH.

1.4.2.3 Weekly Safety Meetings: Hold weekly at the project site. Attach minutes showing contract title, signatures of attendees and a list of topics discussed to the QC Contractor Quality Control daily report.

1.4.2.4 Work Phase Meetings: The appropriate AHA shall be reviewed and attendance documented by the Contractor at the preparatory, initial, and follow-up phases of quality control inspection.

1.4.2.5 New Employee Indoctrination: New employees will be informed of specific site hazards before they begin work. Documentation of this orientation shall be kept on file at the project site.

1.4.3 Certifications:

1.4.3.1 Accident Prevention Plan (APP): Submit the APP at least 15 calendar days prior to start of work at the job site, following Appendix A of COE EM-385-1-1. Make the APP site specific. Notice To Proceed will be given after Government finds the APP acceptable.

1.4.3.2 Activity Hazard Analysis (AHA): Submit the AHA for review at least 15 calendar days prior to the start of each phase. Format

subsequent AHA as amendments to the APP. In accordance with contract quality control requirements each AHA will be reviewed during an on-site preparatory inspection.

1.4.3.3 Health and Safety Plan (HASP): Submit the HASP for projects involving the handling of hazardous materials and allow 15 calendar days for review by the Safety Program Administrator, Yokosuka, OICC Far East.]

1.5 ACCIDENT PREVENTION PLAN (APP): Prepare the APP in accordance with the required and advisory provisions of COE EM-385-1-1 including Appendix A, "Minimum Basic Outline for Preparation of Accident Prevention Plan," and as modified herein.

1.5.1 Hazardous Material Use: Each hazardous material shall receive approval prior to bringing onto the job site or prior to any other use in connection with this contract. Material Safety Data Sheet (MSDS) shall be prepared in each hazardous material. Allow a minimum of 10 working days for processing of the request for use of a hazardous material. Any work or storage involving hazardous chemicals or materials must be done in a manner that will not expose government employees to any unsafe or unhealthful conditions. Adequate protective measures must be taken to prevent government employees from being exposed to any hazardous condition that could result from the work or storage. Approval by the Contracting Officer of protective measures and storage area is required prior to the start of the work.

1.6 ACTIVITY HAZARD ANALYSIS (AHA): Prepare for each phase of the work. As a minimum, define activity being performed, sequence of work, specific hazards anticipated, control measures to eliminate or reduce each hazard to acceptable levels, training requirements for all involved, and the competent person in charge of that phase of work. For work with fall hazards, including fall hazards associated with scaffold erection and removal, identify the appropriate fall arrest systems. For work with materials handling equipment, address safeguarding measures related to materials handling equipment. For work requiring excavations, include excavation safeguarding requirements. The appropriate AHA shall be reviewed and attendance documented by the Contractor at the preparatory, initial, and follow-up phases of quality control inspection.

1.7 HEALTH AND SAFETY PLAN (HASP): Prepare as required by 29 CFR 1910.120 and COE EM-385-1-1.

1.7.1 Qualified Personnel: Retain a Certified Industrial Hygienist (CIH) or a Certified Safety Professional (CSP), to prepare the HASP, conduct activity hazard analyses, and prepare detailed plan for demolition, removal, and disposal of materials. Retain the CIH or CSP for duration of contract.

1.7.2 Contents: In addition to the requirements of COE EM-385-1-1, Table 28-1, the HASP must include:

- a. Location, size, and details of control areas.
- b. Location and details of decontamination systems.
- c. Interface of trades involved in the construction.
- d. Sequencing of work.
- e. Disposal plan.
- f. Sampling protocols.
- g. Testing labs.
- h. Protective equipment.
- i. Pollution control.
- j. Evidence of compliance with 29 CFR 1910.120 and 29 CFR 1926.65.
- k. Training and certifications of CIH, CSP or other competent persons.

1.8 DRUG PREVENTION PROGRAM: Conduct a proactive drug and alcohol use prevention program for all workers, prime and subcontractor, on the site. Ensure that no employees either use illegal drugs or consume alcohol during work hours. Ensure there are no employees under the influence of drugs or alcohol during work hours. After accidents, collect blood, urine or saliva specimens and test injured employee's influence. A copy of the test shall be made available to the Contracting Officer upon request.

1.9 FALL HAZARD PROTECTION AND PREVENTION PROGRAM

1.9.1 Scaffolds: Delineate the fall protection requirements necessary during the erection and dismantling operation of scaffolds used on the project in the Fall Protection and Prevention (FP&P) plan and activity hazard analysis for the phase of work.

1.9.2 Training: Institute a fall protection training program. As part of the Fall Hazard Protection and Prevention Program, Contractor shall provide training for each employee who might be exposed to fall hazards.

1.10 DUTIES OF THE SAFETY OFFICER:

- a. Ensure construction hazards are identified and corrected.
- b. Maintain applicable safety reference material on the job site.
- c. Maintain a log of safety inspections performed.
- d. Attend the pre-construction conference as required.

e. Identify hazardous conditions and take corrective action. Failure to do so will result in a dismissal from the site, with a work stoppage pending approval of suitable replacement personnel.

1.11 DISPLAY OF SAFETY INFORMATION: Display the following information in clear view of the on-site construction personnel:

a. Map denoting the route to the nearest emergency care facility with emergency phone numbers.

b. AHA

c. A sign indicating the number of hours worked since last lost workday accident.

1.12 SITE SAFETY REFERENCE MATERIALS: Maintain safety-related references applicable to the project, including those listed in the article "References." Maintain applicable equipment manufacturers' manuals.

1.13 EMERGENCY MEDICAL TREATMENT: Contractors will arrange for their own emergency medical treatment. Government has no responsibility to provide emergency medical treatment. However, if emergency medical care is rendered by Navy medical services, charges may be billed to Contractor at prevailing rates established in BUMED Instruction 6320.4 series. Reimbursement shall be made by Contractor to Naval Regional Medical Center Collection Agent upon receipt of monthly statement.

1.14 REPORTS:

1.14.1 Accident Reports:

a. For recordable occupational injuries and illnesses, the Prime Contractor shall conduct an accident investigation to establish the root cause(s) of the accident, complete the Navy Contractor Significant Incident Report (CSIR) form and provide to the Contracting Officer within 24 hours of the accident. The Contracting Officer will provide a copy of the CSIR form.

b. For a weight handling equipment accident the Prime Contractor shall conduct an accident investigation to establish the root cause(s) of the accident, complete the WHE Accident Report form and provide to the Contracting Officer within 15 calendar days of the accident. The Contracting Officer will provide a blank copy of the WHE accident report form.

1.14.2 Notification: Notify the Contracting Officer as soon as practical, but not later than four hours, of any accident meeting the definition of Recordable Occupational Injuries or Illnesses or Significant Accidents. Information shall include contractor name; contract title; type of contract; name of activity, installation or

location where accident occurred; date and time of accident; names of personnel injured; extent of property damage, if any; and brief description of accident (to include type of construction equipment used, PPE used, etc.).

1.14.3 Monthly Exposure Report: Monthly exposure reporting, to the Contracting Officer is required to be attached to the monthly billing request. This report is a compilation of employee-hours worked each month for all site workers, both prime and subcontractor.

1.14.4 OSHA Citations and Violations: Provide the Contracting Officer with a copy of each OSHA citation, OSHA report and contractor response. Correct violations and citations promptly and provide written corrective actions to the Contracting Officer.

PART 2 PRODUCTS

2.1 FALL PROTECTION ANCHORAGE: Fall protection anchorage, conforming to ANSI Z359.1, will be left in place and so identified for continued customer use.

PART 3 EXECUTION

3.1 CONSTRUCTION: Comply with COE EM-385-1-1, NFPA 241, the accident prevention plan, the activity hazard analysis and other related submittals and activity fire and safety regulations.

3.1.1 Hazardous Material Exclusions: Notwithstanding any other hazardous material used in this contract, radioactive materials or instruments capable of producing ionizing/non-ionizing radiation as well as materials which contain asbestos, mercury or polychlorinated biphenyls, di-isocyanates, lead-based paint are prohibited. Exceptions to the use of any of the above excluded materials may be considered by Contracting Officer upon written request by Contractor.

3.1.2 Unforeseen Hazardous Material: The design should have identified materials such as PCB, lead paint, and friable and nonfriable asbestos. If material, not indicated, that may be hazardous to human health upon disturbance during construction operations is encountered, stop that portion of work and notify the Contracting Officer immediately. Within 15 calendar days the Government will determine if the material is hazardous. If material is not hazardous or poses no danger, the Government will direct the Contractor to proceed without change. If material is hazardous and handling of the material is necessary to accomplish the work, the Government will issue a modification pursuant to "FAR 52.243-4, Changes" and "FAR 52.236-2, Differing Site Conditions."

3.2 PRE-OUTAGE COORDINATION MEETING: Contractors are required to apply for utility outages a minimum of 15 days in advance. As a minimum, the request should include the location of the outage, utilities being effected, duration of outage and any necessary sketches. Special requirements for electrical outage requests are contained elsewhere in this specification section. Once approved and prior to beginning work on the utility system requiring shut down, the Contractor shall attend a pre-outage coordination meeting with the ROICC and the Station Utilities Department to review the scope of work and the lock out/tag out procedures for worker protection. No work will be performed on energized electrical equipment unless proven impassable. Working equipment "hot" must be considered the last option.

3.3 PERSONNEL PROTECTION:

3.3.1 Hazardous Noise: Provide hazardous noise signs, and hearing protection, wherever equipment and work procedures produce sound-pressure levels greater than 84 dBA steady state or 140 dBA impulse, regardless of the duration of the exposure.

3.3.2 Fall Protection: Enforce use of the fall protection device designated for each specific work activity in the FP&P plan and/or AHA all times when an employee is on a surface 1.8 m or more above lower levels. Personal fall arrest systems are required when working from an articulating or extendible boom, scissor lifts, swing stages, or suspended platform. Fall protection must comply with ANSI A10.14.

3.3.2.1 Personal Fall Arrest Device: Personal fall arrest device equipment, systems, subsystems, and components shall meet ANSI Z359.1, "Safety Requirements for Personal Fall Arrest Systems". Only a full-body harness with a shock absorbing lanyard or self-retracting lanyard is an acceptable personal fall arrest device. Only body belts and waist belts may be used when a fall cannot occur. Harnesses shall have a fall arrest attachment, which is a connector, affixed to the body support (usually a D-ring) and specifically designated for attachment to the rest of the system. Only double locking snap hooks and carabiners shall be used. Webbing, straps, and ropes shall be made of synthetic fiber.

3.3.2.2 Fall Protection for Roofing Work: Fall protection controls shall be implemented based on the type of roof being constructed and work being performed. The roof area to be accessed shall be evaluated for its structural integrity including weight-bearing capabilities for the projected loading.

a. Low Sloped Roofs:

(1) For work within 1.8 m of an edge, on low-slope roofs, personnel shall be protected from falling by use of personal fall arrest systems, guardrails, or safety nets. Safety monitoring system is not adequate fall protection and is not authorized.

(2) For work greater than 1.8 m from an edge, warning lines shall be erected and installed in accordance with 29 CFR 1926.502(f).

b. Steep Roofs: Work on steep roofs requires personal fall arrest system, guardrails with toe-boards, or safety nets. This requirement also includes residential or housing type construction.

3.3.2.3 Safety Nets: If safety nets are used as the selected fall protection system on the project, they shall be provided at unguarded workplaces, over water, machinery, dangerous operations and leading edge work.

3.3.2.4 Existing Anchorage: Existing anchorages, used for attachment of personal fall arrest equipment, if to be used by the Contractor, shall be re-certified by the contractor's fall protection engineer (QP).

3.4 SCAFFOLDING: Employees shall be provided with a safe means of access to the work area on the scaffold. Climbing of any scaffold braces or supports not specifically designed for access is prohibited. Stair towers or ladders built into scaffold systems in accordance with USACE EM 385-1-1 Appendix J are required for work platforms greater than 6 m in height. Contractor shall ensure that employees that are qualified perform scaffold erection. Do not use scaffold without the capability of supporting at least four times the maximum intended load or without appropriate fall protection as delineated in the accepted fall protection plan. Minimum platform size shall be based on the platform not being greater in height than three times the dimension of the smallest width dimension for rolling scaffold. Some Baker type scaffolding has been found not to meet these requirements. Stationary scaffolds must be attached to structural building components to safeguard against tipping forward or backward. Special care shall be given to ensure scaffold systems are not overloaded. Outrigger brackets used to extend scaffold platforms on self supported scaffold systems for the storage of material is prohibited. The first tie-in shall be at the height equal to 4 times the width of the smallest dimension of the scaffold base. Scaffold or platforms shall be provided with railing having a top rail whose upper surface is from 42-45 inches (107-114 cm) above the work surface and mid-rail located halfway between the top rail and the work surface. When necessary to prevent tools and materials from falling, toeboards of not less than 1 X 4 inch (2.5 X 10 cm) lumber shall be provided.

3.5 EQUIPMENT:

3.5.1 Material Handling Equipment:

a. Material handling equipment such as forklifts shall not be modified with work platform attachments for supporting employees unless specifically delineated in the manufacturer's printed operating instructions.

b. The use of hooks on equipment for lifting of material must be in accordance with manufacturers printed instructions.

3.6 EXCAVATIONS: The competent person for excavation performed as a result of contract work shall be on-site when work is being performed in excavation, and shall inspect excavations prior to entry by workers. The competent person must evaluate for all hazards, including atmospheric, that may be associated with the work, and shall have the resources necessary to correct hazards promptly. Prior to digging the appropriate digging permit must be obtained. All underground utilities in the work area must be positively identified by a utility locating service and coordinated with Station Utility Departments. The Contractor must physically verify underground utility locations by hand digging using wood or fiberglass handled tools when any adjacent construction work is expected to come within 1.0 m of the underground system. If construction is parallel to an existing utility the utility shall be exposed by hand digging every 30 m if parallel within 1.5 m of the excavation. Trench and shoring systems must be identified in the accepted safety plan and activity hazard analysis. Extreme care must be used when excavating near direct burial electric underground cables. Trenching machines with digging chain drives shall be operated only when the spotters/laborers are in plain view of the operator. Operator and spotters/laborers shall be provided training on the hazards of the digging chain drives with emphasis on the distance that needs to be maintained when the digging chain is operating. Documentation of the training shall be kept on file in the project site office or trailer.

3.6.1 Temporary Barricade for Earthwork: Use steel traffic barricade (1,800 mm in height), clamped with H-shaped steel for anchoring, with flashing lights, to prevent the unauthorized people from coming into and going out of the job site.

3.7 HOUSEKEEPING:

3.7.1 Clean-up: All debris in work areas shall be cleaned up daily or more frequently as necessary. Construction debris may be temporarily located in an approved location, however garbage accumulation must be removed each day.

3.7.2 Dust Control: In addition to the dust control measures required elsewhere in the contract documents dry cutting of brick or masonry shall be prohibited. Wet cutting must address control of water run off.

3.8 ACCIDENT SCENE PRESERVATION: For serious accidents, and accidents involving weight handling equipment, ensure the accident site is secured and evidence is protected remaining undisturbed until released by the Contracting Officer.

3.9 FIELD QUALITY CONTROL:

3.9.1 Inspections: Include safety inspection as a part of the daily Quality Control inspections required in Section 01450, "Quality Control".

3.9.2 VEHICLES: Amount of vehicles and parking area for on-site work shall be under the direction of the Contracting Officer. No personal vehicles are allowed except for transportation of materials, equipment, employees, and others related for this project.

3.9.3 SMOKING AREA: The Contractor's smoking area shall be under the direction of the Contracting Officer.

3.10 FLAMMABLE AND COMBUSTIBLE LIQUID HANDLING AND STORAGE:

3.10.1 Safety Gas Containers: Handling of flammable and combustible liquids shall be in safety containers with flame arresters, with not more than 19 L(liter) capacity, having a spring-closing lid and spout cover and designed to safely relieve internal pressures under fire exposures. Flammable and combustible Liquids shall be stored in separate NFPA approved storage cabinets 15 m away from any sources of ignition with suitable NO SMOKING OR OPEN FLAME signs posted in all such areas.

*** END OF SECTION ***

SECTION 01560

ENVIRONMENTAL PROTECTION

PART 1 - GENERAL

1.1 REFERENCES: The publications listed below forms a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 Japanese Law (JL):

No.132	The Environmental Pollution Prevention Act.
No. 97	The Air Pollution Control Act (Clean Air Act)
No.138	The Water Pollution Prevention Act.
No.136	The Sea Pollution Prevention Act.
No.139	The Agricultural Soil Pollution Prevention Act.
No. 98	The Noise Control Act.
No. 64	The Oscillation (Vibration) Control Act.
No.137	The Waste Disposal and Cleaning Act.
No. 85	The National Environment Conservation Act.

1.1.2 Kanagawa Prefectural Office's Publication:

"Kanagawa-ken Kohgai Bohshi Jyorei Kitei Shu (Heisei 4 nendo)"
(Handbook for Pollution Control Laws and Official Regulations)

1.1.3 Notification of the Environment Agency, Japan:

No. 13	Detection Method for the Presence of Toxicity
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1.1.4 U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) Regulation:

29 CFR 1910.94	Occupational Health and Environmental Control
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1.1.5 DOD Japanese Environmental Governing Standards (JEGS), accomplished by US Forces Japan, American Embassy, and Japanese Government Agencies, Oct 2001.

1.2 DEFINITIONS:

1.2.1 Sediment: Soil and other debris that have eroded and transported by runoff water or wind.

1.2.2 Solid Waste: Rubbish, debris, garbage, and other discarded solid materials, except hazardous waste as defined in paragraph entitled, "Hazardous Waste," resulting from industrial, commercial, and agricultural operations, and from community activities.

1.2.3 Rubbish: Combustible and noncombustible wastes such as paper, boxes, glass, crockery, metal, lumber, cans, and bones.

1.2.4 Debris: Combustible and noncombustible wastes such as ashes and waste materials resulting from construction or maintenance and repair work, leaves, and tree trimmings.

1.2.5 Chemical Waste: This includes salts, acids, alkalies, herbicides, pesticides, and organic chemicals.

1.2.6 Sanitary Wastes:

1.2.6.1 Sewage: Waste characterized as domestic sanitary sewage.

1.2.6.2 Garbage: Refuse and scraps resulting from preparation, cooking, dispensing, and consumption of food.

1.2.7 Hazardous Waste: Hazardous substances as defined in JEGS and JL No.137 as defined.

1.2.8 Oily Waste: Petroleum products and bituminous materials.

1.3 SUBMITTALS:

1.3.1 SD-13, Environmental Protection Plan: Submit four copies of the proposed environmental protection plan. Environmental protection plan includes all permits and disposal documentation regarding work performed under this contract, and protection plan for hazardous material spill response.

1.4 ENVIRONMENTAL PROTECTION REQUIREMENTS: Provide and maintain during the life of the contract, environmental protection as defined. Plan for and provide environmental protective measures to control pollution that develops during normal construction practice. Plan for and provide environmental protective measures required to correct conditions that develop during the construction of permanent or temporary environmental features associated with the project. Comply with the regulations, listed under paragraph "References", pertaining to the environment. In the event of conflict among any of the cited regulations the most stringent shall govern.

1.4.1 Environmental Protection Plan: Five days after the award of contract, the Contractor shall meet with the Contracting Officer to discuss the proposed environmental protection plan and to develop mutual understanding relative to the details of environmental protection, including measures for protecting natural resources, required reports, and other measures to be taken.

1.4.1.1 Fourteen days after the meeting, the Contractor shall submit to the Contracting Officer the proposed environment plan for further discussion, review, and approval.

1.4.1.2 Commencement of the Work: As directed by the Contracting Officer, following approval.

1.4.2 Preconstruction Survey: Perform a preconstruction survey of the project site with the Contracting Officer, and take photographs showing existing environmental conditions in and adjacent to the site.

1.5 PROHIBITED MATERIALS: Prohibit the following materials to be used.

- a. Materials containing asbestos.
- b. Drinking water components or fixtures that contains greater than 8% lead (pipes, fittings, and fixtures) or 0.2% lead (flux and solders).
- c. Paint that contains more than 0.06% lead by weight in the total non-volatile content of liquid paint.
- d. Materials containing PCBs (2 ppm and above).

PART 2 - EXECUTION

2.1 PROTECTION OF NATURAL RESOURCES: Preserve the natural resources within the project boundaries and outside the limits of permanent work. Restore to an equivalent or improved condition upon completion of the work. Confine construction activities to within the limits of the indicated or specified.

2.1.1 Land Resources: Except in areas to be cleared, do not remove, cut, deface, injure, or destroy trees or shrubs without the Contracting Officer's permission. Do not fasten or attach ropes, cables, or guys to existing nearby trees for anchorages, unless authorized by the Contracting Officer. Where such use of attach ropes, cables, or guys is authorized, the Contractor shall be responsible for any resultant damage.

2.1.1.1 Protection: Protect existing trees which are to remain and which may be injured, bruised, defaced, or otherwise damaged by construction operation. Remove displaced rocks from uncleared areas.

By approved excavation, remove trees with 30 percent or more of their root systems destroyed.

2.1.1.2 Replacement: Remove plants, trees, and other landscape features scarred or damaged by equipment operations, and replace with equivalent, undamaged trees and landscape features. Obtain the Contracting Officer's approval before replacement.

2.1.1.3 Temporary Construction: Remove traces of temporary construction facilities such as haul roads, work areas, structures, foundations of temporary structures, stockpiles of excess or waste materials, and other signs of construction. Grade temporary roads, parking areas, and similar temporarily used areas to conform with surrounding contours.

2.2 EROSION AND SEDIMENT CONTROL MEASURES:

2.2.1 Burnoff: Burnoff of the ground cover is not permitted.

2.2.2 Temporary Protection of Erodible Soils: Use the following methods to prevent erosion and control sedimentation:

2.2.2.1 Mechanical Retardation and Control of Runoff: Mechanically retard and control the rate of runoff from the construction site. This includes construction of diversion ditches, benches, and berms to retard and divert runoff to protected drainage courses.

2.3 DUST CONTROL: Keep dust down at all times, including during nonworking periods. Sprinkle or treat, with dust suppressants, the soil at the site, haul roads, and other areas disturbed by operations. Dry power brooming will not be permitted. Instead, use vacuuming, wet sweeping, or wet power brooming. Only wet cutting will be permitted for cutting concrete blocks, concrete, and bituminous concrete. Do not unnecessarily shake bags of cement, concrete mortar, or plaster.

2.4 DISPOSAL REQUIREMENTS: Collect dust and other debris resulting from concrete surface cleaning operations and store in drums with watertight lids. Take a representative sample of this material, and test for toxicity characteristic leachate potential (TCLP) with respect to lead, chromium, cadmium, arsenic, and total mercury content. The sampling and testing shall be performed in accordance with JECS. Meet all applicable requirements in this process. Hazardous material shall be transported only by a transporter licensed and permitted for transportation of hazardous materials. Hazardous material shall be disposed of in a Japanese local agency approved and permitted facility specifically designated for hazardous waste disposal.

2.5 HAZARDOUS WASTE DISPOSAL: Dispose of hazardous waste in accordance with the laws, rules, and local regulations listed under

paragraphs "Japanese Laws" through JEGS.

*** END OF SECTION ***

SECTION 01801

SAFETY REQUIREMENTS FOR CRANE OPERATION

PART 1 - GENERAL

1.1 REFERENCES: The publications listed below forms a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 U.S. Army Corps of Engineers:

EM 385-1-1 Safety and Health Requirements Manual

1.1.2 U.S. Navy Publication (P-Pub):

P-307 Management of Weight Handling Equipment

1.2 SUBMITTALS: Submit the following items to the Contracting Officer;

- a. SD-08, Notification for entering with crane.
- b. SD-13, Certification for equipment
- c. SD-13, Certification for operators
- d. Accident reports.

1.3 RULES AND REQUIREMENTS: Any crane entering any Naval activity in Japan shall conform to EM-385-1-1, P-307, Prefectural Labor Standards Office rules, and requirements concerning the safe operating conditions and safe operations of that crane.

1.4 NOTIFICATION: The Contractor with cranes entering the activity shall notify the ROICC in writing at least 48 hours before entry of crane.

1.5 CERTIFICATIONS FOR EQUIPEMNT: The Contractor shall certify that the crane and rigging gear conform to the GOJ Safety Standards per the certification statements, paragraph 1, of the blank form ("Certificate of Compliance") attached as ATTACHMENT-1 at the end of this section. The Contractor shall also certify, using the same form, certification statement paragraph 3, that all crane operators working on the Naval activity have been trained not to ignore safety devices (such as anti-two blocking devices) during lift operations.

1.6 CERTIFICATIONS FOR OPERATORS: The Contractor shall certify the crane operators are qualified and trained for the operation of the crane using the blank form ("Certificate of Compliance") attached as ATTACHMENT-1 at the end of this section. Post the completed copy of ATTACHMENT-1 in a visible portion of the crane operator's cab. Complete and post the completed copy of ATTACHMENT-1 in a visible portion of the crane operator's cab. The Contracting Officers and representatives of the host activities will perform on-site-spot checks to assure that crane safety is observed and any unsafe conditions or actions will cause the stoppage of the crane work. On-site-post checks will be documented using ("Contractor Crane Operation Checklist") attached as ATTACHMENT-2 at the end of this section.

1.7 DOCUMENTATION: The prime Contractor shall have documentation for the testing and operating exam in order to make it valid. The training and operating exam can have been done by Japanese Labor Standards Bureau or designated training agency. The key is to be able to show us the training outline, qualifications of the trainer, the test questions given and what the operational exam consisted of. After completion of the training, etc, the operator shall be given a license or certificate of completion. Retaining shall be done after any accident has occurred and refresher training at least every 3 years.

1.8 ACCIDENT:

1.8.1 Notifying: The Contractor shall notify the Contracting Officer of a crane accident as soon as practical after the accident has occurred (no longer than two hours). The accident scene shall be secured and evidence protected until released by the Contracting Officer. Crane operations shall not be continued until a cause is determined and corrective actions are in place to the satisfaction of the Contracting Officer.

1.8.2 Reports: Within 30 calendar days, the Contractor shall provide a weight handling accident report using form ("WEIGHT HANDLING EQUIPMENT ACCIDENT REPORT" with instructions, reference to attachments 3 and 4, attached at the end of this section) consisting of a summary of circumstances, an explanation of cause, photographs, and corrective actions taken.

PART 2 and PART 3

Not used.

*** END OF SECTION ***

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CERTIFICATE OF COMPLIANCE

This certificate shall be signed by an official of the company that provides cranes for any application under this contract. Post a completed certificate on each crane brought onto Navy property.

PRIME CONTRACTOR /PHONE:

CONTRACT NUMBER:

CRANE SUPPLIER/PHONE:
(if different from prime contractor)

CRANE NUMBER:
(i.e., ID number)

CRANE MANUFACTURER/TYPE/CAPACITY:

CRANE OPERATOR'S NAME(S):

I certify that:

1. The above noted crane conforms to applicable OSHA regulations (host country regulations for naval activities in foreign countries). The following regulations apply: EM 385-1-1, SECTION 16.C, Appendix G, H and I, Where more stringent crane standards are set forth, the more stringent standards shall apply.

2. That the operator(s) noted above have been trained, tested (orally or written and practical operating examination) and are qualified for the operation of the above noted crane. I have included that the operator must have been tested, either orally or written, and that a practical operating exam has been administered. These requirements need to be done for each different type, manufacturer and size of crane.

3. That the operators noted above have been trained not to bypass safety devices during lifting operations.

COMPANY OFFICIAL SIGNATURE:

DATE:

POST ON CRANE
(IN CAB OR VEHICLE)

CONTRACTOR CRANE OPERATION CHECKLIST

		YES	NO
1.	Does the operator know the weight of the load to be lifted?		
2.	Is the load to be lifted within the crane manufacturer's rated capacity in its present configuration?		
3.	Is the crane level and on firm ground?		
4.	Are outriggers required?		
5.	If so, are outriggers fully extended and down, and the crane load off the wheels?		
6.	If blocking is required, is the entire surface of the outrigger pad supported and is the blocking material of sufficient strength to safely support the loaded outrigger pad?		
7.	If outriggers are not used, is the crane rated for on-rubber lifts by the manufacturer's load chart?		
8.	Is the swing radius of the crane counterweight clear of people and obstructions and accessible areas within the swing area barricaded to prevent injury or damage?		
9.	Has the hook been centered over the load in such a manner to minimize swing?		
10.	Is the load well secured and balanced in the sling or lifting device before it is lifted more than a few inches?		
11.	Is the lift and swing path clear of obstructions?		
12.	If rotation of the load being lifted is hazardous, is a tag or restraint line being used?		
13.	Are personnel prevented from standing or passing under a suspended load?		
14.	Is the crane operator's attention diverted?		
15.	Are proper signals being used at all times?		
16.	Do the operations ensure that side loading is prohibited?		
17.	Are personnel prevented from riding on a load?		
18.	Are start and stop motions in a smooth fluid motion (no sudden acceleration or deceleration)?		
19.	If the load is to be suspended and left unattended, have prior planning and written procedures been completed?		
20.	If operating near electric power lines, are the rules and guidelines understood and adhered to?		
21.	Is the lift a critical lift?		
22.	If so, are all regulations understood and check-off sheets initialed and signed off?		
23.	Is the operator qualified to operate crane? Viewed documentation?		
Contractor:		Subcontractor:	
Location:		Date:	
Notes:			

WEIGHT HANDLING EQUIPMENT ACCIDENT REPORT					Report Date:
From:			To: Navy Crane Center, NORTHNAVFACENGCOM 10 Industrial Hwy; MS #82 Lester, PA 19113-2090 FAX (610) 595-0748		
UIC:					
Activity:				Report No:	
Crane No:		Cat:		Accident Date	
Time: hrs					
SPS:		GPS:		Crane Type:	
Crane Manufacturer:					
Location:				Weather:	
Crane Capacity:		Hook Capacity:		Weight of Load on Hook:	
NAVSAFECEN Reportable		YES		NO	
				Damage Cost Estimate	
				Only if >\$10,000	
Accident Type: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"><input type="checkbox"/> Personal Injury</div> <div style="width: 50%;"><input type="checkbox"/> Overload</div> <div style="width: 50%;"><input type="checkbox"/> Derail</div> <div style="width: 50%;"><input type="checkbox"/> Damaged Rigging Gear</div> <div style="width: 50%;"><input type="checkbox"/> Load Collision</div> <div style="width: 50%;"><input type="checkbox"/> Two Blocked</div> <div style="width: 50%;"><input type="checkbox"/> Dropped Load</div> <div style="width: 50%;"><input type="checkbox"/> Damaged Crane</div> <div style="width: 50%;"><input type="checkbox"/> Crane Collision</div> <div style="width: 50%;"><input type="checkbox"/> Damaged Load</div> <div style="width: 50%;"><input type="checkbox"/> Other _____ Specify</div> </div>					
Cause of Accident: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"><input type="checkbox"/> Improper Operation</div> <div style="width: 50%;"><input type="checkbox"/> Equipment Failure</div> <div style="width: 50%;"><input type="checkbox"/> Inadequate Visibility</div> <div style="width: 50%;"><input type="checkbox"/> Improper Rigging</div> <div style="width: 50%;"><input type="checkbox"/> Switch Alignment</div> <div style="width: 50%;"><input type="checkbox"/> Inadequate Communication</div> <div style="width: 50%;"><input type="checkbox"/> Track Condition</div> <div style="width: 50%;"><input type="checkbox"/> Procedural Failure</div> <div style="width: 50%;"><input type="checkbox"/> Other _____ Specify</div> </div>					
Chargeable To: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"><input type="checkbox"/> Track Walker</div> <div style="width: 50%;"><input type="checkbox"/> Rigger</div> <div style="width: 50%;"><input type="checkbox"/> Operator</div> <div style="width: 50%;"><input type="checkbox"/> Maintenance</div> <div style="width: 50%;"><input type="checkbox"/> Management/Supervision</div> <div style="width: 50%;"><input type="checkbox"/> Other _____ Specify</div> </div>					
Crane Function <input type="checkbox"/> Travel <input type="checkbox"/> Hoist <input type="checkbox"/> Rotate <input type="checkbox"/> Luffing <input type="checkbox"/> Lower <input type="checkbox"/> Telescoping					
Is this accident indicative of a recurring problem? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, list Accident Report Nos.: _____					
ATTACH COMPLETE AND CONCISE SITUATION DESCRIPTION AND CORRECTIVE /PREVENTIVE ACTIONS TAKEN AS ENCLOSURE (1). Includes probable cause and contributing factors. Assess damages And define responsibility. For equipment malfunction or failure include specific description of the Component and the resulting effect or problem caused by the malfunction or failure. List Corrective/ Preventive Actions assigned and responsible codes					
Preparer's Signature			Code		Date
CONCURRENCES (Include Signature, Code, and date)					
CERTIFYING OFFICIAL					

WEIGHT HANDLING EQUIPMENT ACCIDENT REPORT INSTRUCTIONS

Block 1 - Report Date: The date the accident report is completed.

Block 2 – From: The naval activity that owns the crane and UIC number.

Block 3 – Activity: The naval activity where the accident took place.

Block 4 – Report No.: The activity assigned accident number (e.g., 95-001).

Block 5 – Crane No.: The activity assigned crane number (e.g., PC-5).

Block 6 – Category: Identify category of crane (i.e., 1,2,or 3).

Block 7 – Accident Date: The date the accident occurred (month/day/year).

Block 8 – Time: The time (24 hour clock) the accident occurred (e.g., 1300).

Block 9 – Category of Service: Special purpose service (SPS) or general purpose service (GPS).

Block 10 – Crane Type: The type of crane involved in the accident (e.g., mobile, bridge).

Block 11 – Crane Manufacturer: The manufacturer of the crane (e.g., Dravo, Grove, P&H).

Block 12 – Location: The detailed location where the accident took place (e.g., building 213, dry dock 5).

Block 13 – Weather: The weather conditions at time of accident (e.g., wind, rain, cold).

Block 14 – Crane Capacity: The certified capacity of the crane (e.g., 60 tons).

Block 15 – Hook Capacity: The capacity of the hook involved in the accident at the maximum radius of the operation.

Block 16 – Weight of Load on Hook: If applicable, the weight of the load on the hook.

Block 17 – NAVSAFECEN Reportable: Check yes or no. See OPNAVINST 5100.23 for more information.

Block 18 – Dmg Cost Estimate: Estimate total cost of damage resulting from the accident if greater than (>)\$10,000.

Block 19 – Accident Type: Check all that apply.

Block 20 – Cause of Accident: Check all that apply.

Block 21 – Chargeable to: Check all that apply.

Block 22 – Crane Function: Check the function(s) in operation at time of accident. Check all that apply.

Block 23 – Is this a recurring problem?: Check yes or no. Identify any other similar accidents.

Block 24 – Situation Description/Corrective Actions: Self-explanatory.

Block 25 – Concurrence: Signatures of activity personnel verifying the accident report.

DIVISION 2

SITE WORK

SECTION 02220

SITE DEMOLITION

PART 1 - GENERAL

1.1 REFERENCES: The following publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 Department of Defense Japan Environmental Governing Standard issued by Headquarters, U.S. Forces Japan, (JEGS) (Version 1.1- Revised June 2002).

1.1.2 Kanagawa Prefectural Waste Management Division ("Kanagawa-Ken Haikibutsu Taisaku-ka"):

List of Certified Industrial Waste Treatment/Landfill Company (Mar 99)
("Sangyo Haikibutsu Shori Gyosha Kyoka Gaiyou")

1.2 GENERAL REQUIREMENTS: Do not begin demolition until authorization is received from the Contracting Officer. Remove rubbish and debris from the project site; do not allow accumulations [inside or outside the buildings. Store materials that cannot be removed daily in areas specified by the Contracting Officer.

1.3 SUBMITTALS: Submit the following in accordance with Section 01330, "Submittal Procedures."

1.3.1 SD-08, Statements:

a. Demolition Plan: Submit demolition and removal procedures [to the Contracting Officer] for approval before work is started.

b. Disposal Permits: Obtain necessary permits in conjunction with treatment and disposition of oil-contaminated soil, and submit the permits to the Contracting Officer.

1.3.2 SD-13, Certificates:

a. Disposal manifest

1.3.3 SD-18, Records: Submit waste identification documentation in accordance with JEGS.

a. Waste identification documentation

1.4 REGULATORY AND SAFETY REQUIREMENTS: Comply with federal, GOJ, prefectural, local, and Japan Environmental Governing Standards (JEGS) regarding hauling and disposal regulations.

1.5 DUST AND DEBRIS CONTROL: Prevent the spread of dust and debris to occupied portions of the building and avoid the creation of a nuisance or hazard in the surrounding area. Do not use water if it results in hazardous or objectionable conditions such as, but not limited to, ice, flooding, or pollution. Vacuum and dust the work area daily.

1.6 PROTECTION:

1.6.2 Existing Work: Protect existing work which is to remain in place, be reused, or remain the property of the Government. Repair items which are to remain and which are damaged during performance of the work to their original condition, or replace with new. Do not overload structural elements and pavements to remain. Provide new supports and reinforcement for existing construction weakened by demolition or removal work. Repairs, reinforcement, or structural replacement must have Contracting Officer approval.

1.6.4 Trees: Protect trees within the project site that might be damaged during demolition and that are indicated to be left in place, by a 1.8 m high fence. Restore trees scarred or damaged by Contractor equipment or operations to satisfactory condition, or replace as determined by the Contracting Officer. Restoration shall be approved prior to its initiation.

1.6.5 Facilities: Protect electrical and mechanical services and utilities. Where removal of existing utilities and pavement is specified or indicated, provide approved barricades, temporary covering of exposed areas, and temporary services or connections for electrical and mechanical utilities.

1.7 BURNING: Burning will not be permitted.

1.8 RELOCATIONS: Perform the removal and reinstallation of relocated items as indicated with workmen skilled in the trades involved. Repair items to be relocated which are damaged or replace damaged items with new undamaged items as approved by the Contracting Officer.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.1 EXISTING FACILITIES TO BE REMOVED:

3.1.1 Tables and Benches: Remove indicated existing tables and benches.

3.1.2 Holes: Where removals leave holes and damaged surface exposed in the finished work, repair these holes and damaged surfaces to match adjacent finished surfaces, unless otherwise indicated or specified.

3.2 FILLING: Fill holes, open basements, and other hazardous openings in accordance with Section Section 02315 "Excavation, Backfilling, And Compacting For Structure."

3.3 DISPOSITION OF MATERIAL:

3.3.1 Title to Materials: Except where specified, all materials removed shall become the property of the Contractor and shall be removed from Government property. Title to materials resulting from demolition, and materials and equipment to be removed, is vested in the Contractor upon approval by the Contracting Officer. The Government will not be responsible for the condition or loss of, or damage to, such property after notice to proceed. Materials shall not be viewed by prospective purchasers or sold on the site.

3.4 CLEANUP:

3.4.1 Debris and Rubbish: Remove and transport debris and rubbish in a manner that will prevent spillage on pavements, streets or adjacent areas. Clean up spillage from pavements, streets and adjacent areas.

*** END OF SECTION ***

SECTION 02315

EXCAVATION, BACKFILLING, AND COMPACTING

PART 1 - GENERAL

1.1 REFERENCES: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 Japanese Industrial Standards (JIS):

A 1214-01	Test Method for Soil Density by the Sand Replacement Method
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1.2 DEFINITIONS:

1.2.1 Backfill: Material used in refilling a cut, trench or other excavation.

1.2.2 Cohesive Materials: Soils classified by ASTM D 2487 as GC, SC, ML, CL, MH, and CH. Materials classified as GM and SM will be identified as cohesive only when fines have a plasticity index greater than zero.

1.2.3 Cohesionless Materials: Soils classified by ASTM D 2487 as GW, GP, SW, and SP. Materials classified as GM and SM will be identified as cohesionless only when the fines have a plasticity index of zero.

1.2.4 Compaction: The process of mechanically stabilizing a material by increasing its density at a controlled moisture condition. "Degree of Compaction" is expressed as a percentage of the maximum density obtained by the test procedure described in JIS A 1214, abbreviated in this specification as "95 percent JIS A 1214 maximum density."

1.2.5 Hard Material: Weathered rock, dense consolidated deposits, or conglomerate materials (excluding man made materials such as concrete) which are not included in the definition of "rock" but which usually require the use of heavy excavation equipment, ripper teeth, or jack hammers for removal.

1.2.6 In-Situ Soil: Existing in place soil.

1.2.7 Lift: A layer (or course) of soil placed on top of subgrade or a previously prepared or placed soil in a fill or backfill.

1.2.8 Refill: Material placed in excavation to correct overcut in depth.

1.2.9 Rock: Solid homogeneous interlocking crystalline material with firmly cemented, laminated, or foliated masses or conglomerate deposits, neither of which can be removed without systematic drilling and blasting, drilling and the use of expansion jacks or feather wedges, or the use of backhoe-mounted pneumatic hole punchers or rock breakers; also large boulders, buried masonry, or concrete other than pavement exceeding 0.76 cubic meter in volume. Removal of "hard material" will not be considered rock excavation because of intermittent drilling and blasting that is performed merely to increase production.

1.2.10 Topsoil: In natural or undisturbed soil formations, the fine-grained, weathered material on the surface or directly below any loose or partially decomposed organic matter. Topsoil may be a dark-colored, fine, silty, or sandy material with a high content of well decomposed organic matter, often containing traces of the parent rock material.

1.2.11 Unyielding Material: Rock rib, ridge, rock protrusion, or soil with cobbles in the trench bottom requiring a covering of finer grain material or special bedding to avoid bridging in the pipe or conduit.

1.2.12 Unsatisfactory Material: In-Situ soil or other material which can be identified as having insufficient strength characteristics or stability to carry intended loads in the trench without excessive consolidation or loss of stability. Also backfill material which contains refuse, frozen material, large rocks, debris, soluble particles, and other material which could damage the pipe or cause the backfill not to compact.

1.2.13 Unstable Material: Material in the trench bottom which lacks firmness to maintain alignment and prevent joints from separating in the pipe, conduit, or appurtenance structure during backfilling. This may be material otherwise identified as satisfactory which has been disturbed or saturated.

1.3 PROTECTION

1.3.1 Utilities: Movement of construction machinery and equipment over pipes and utilities during construction shall be at the Contractor's risk. Excavation made with power-driven equipment is not permitted within 600 mm of known Government-owned utility or subsurface construction. For work immediately adjacent to or for excavations exposing a utility or other buried obstruction, excavate by hand. Start hand excavation on each side of the indicated obstruction and continue until the obstruction is uncovered or until clearance for the new grade is assured. Support uncovered lines or other existing work affected by the contract excavation until approval for backfill is granted by the Contracting Officer. Report damage to utility lines or subsurface construction immediately to the Contracting Officer.

PART 2 - PRODUCTS

2.1 MATERIALS:

Not Used.

PART 3 EXECUTION

3.1 GENERAL EXCAVATION AND TRENCHING: Keep excavations free from water while construction is in progress. Notify the Contracting Officer immediately in writing if it becomes necessary to remove rock or hard, unstable, or otherwise unsatisfactory material to a depth greater than indicated.

3.2 FILLING AND BACKFILLING:

3.2.1 Filling and Backfilling Adjacent to Structures: Place backfill adjacent to structures and compact to prevent wedging action or eccentric loading upon or against the structures. Do not use equipment for backfilling operations or for the formation of embankments against structures that will overload the structure. Backfilling against concrete will be done only after approval has been obtained from the Contracting Officer.

3.2.2 Filling and Subgrade Preparation: Construct fill and embankment at the locations and to lines and grades indicated. Use only approved materials in constructing fill upon the prepared subgrade. Material will not be placed on surfaces that are muddy, frozen, or contain frost. Compact with equipment well suited to the soil being compacted. Moisten or aerate material as necessary to provide the moisture content that will readily facilitate obtaining the specified compaction with the equipment used. Compact each lift as specified herein before placing the overlaying lift.

3.3 COMPACTION: Use hand-operated, plate-type, vibratory, or other suitable hand tampers in areas not accessible to larger rollers or compactors. Avoid damaging pipes and structure. If necessary, alter, change, or modify selected equipment or compaction methods to meet specified compaction requirements. Compact initial backfill material 90 percent of JIS A 1214 maximum density surrounding duct pipes, tree, and shrub, and 95 percent of JIS A 1214 maximum density surrounding concrete structure.

*** END OF SECTION ***

SECTION 02821

CHAIN LINK FENCE

PART 1 - GENERAL

1.1 REFERENCES: The following publications of the issues listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 Japanese Industrial Standards (JIS):

G 3302-98	Hot-dip Zinc-coated Steel Sheets and Coils
G 3444-94	Carbon Steel Tubes for General Structural Purpose
G 3547-98	Zinc-coated Low Carbon Steel Wires
H 8641-82	Zinc Hot Dip Galvanizings

1.2 DELIVERY, STORAGE AND PROTECTION: Deliver materials to the site in an undamaged condition. Store materials off the ground to provide protection against oxidation caused by ground contact.

PART 2 - PRODUCTS

2.1 CHAIN-LINK FENCE: The fence system shall be made and supplied by the same manufacturer. And the system shall consist of the following components and other parts, including accessories and fasteners, recommended by the fence system manufacture. All components and parts shall be factory-finished (galvanized and precoated).

2.1.1 Mesh Panel: JIS G 3547, Type SWMGH-3. The dimensions of the mesh panel shall be as indicated on drawing.

2.1.2 Post: JIS G 3444, Type STK 400.

2.1.3 Fittings and Bands: JIS G 3302, Type SGHC.

PART 3 - EXECUTION

3.1 INSTALLATION: Install the fence on previously prepared surfaces to line and grade as indicated. Install fence in accordance with the drawing, specification, and manufacturer's written installation instructions, except as modified herein.

3.1.1 Grading: Establish a graded fence line prior to fencing installation. The ground along the fence line shall be solid, and dirt fill used to establish the fence line shall be thoroughly compacted. Clear the fence line of all trees, brush, or other obstacles that will interfere with the fencing.

3.1.2 Excavation: As specified in Section 02315 "Excavation, Backfilling, And Compacting For Structure".

3.1.3 Post Setting: Set post plumb.

3.2 CLEANUP: Remove waste fencing materials and other debris from the fencing site.

*** END OF SECTION ***

SECTION 02921

TURF

PART 1 - GENERAL

1.1 DEFINITION: Pesticide means soil fumigants, herbicides, insecticides and fungicides.

1.2 DELIVERY, STORAGE, AND HANDLING:

1.2.1 Delivery:

1.2.1.1 Protect sod, from drying out and from contamination during delivery, on-site storage, and handling.

1.2.1.2 Prior to stockpiling topsoil, treat growing vegetation with application of appropriate specified non-selective herbicide. Treat when foliage is 15 cm to 25 cm (6 to 10 inches) high and approximately 4 to 6 weeks prior to stockpiling.

1.2.2 Handling: Do not drop or dump materials from vehicles.

1.3 TIME LIMITATION FOR SOD: Limit the time between harvesting and placing sod as specified in the paragraph entitled, "Placing."

PART 2 - PRODUCTS

2.1 SOD:

2.1.1 Classification: Nursery grown. Machine cut sod at a uniform thickness of 20 mm (3/4 inch) within a tolerance of 7 mm (1/4 inch), excluding top growth and thatch. Each individual sod piece shall be strong enough to support its own weight when lifted by the ends. Broken pads, irregularly shaped pieces, and torn or uneven ends will be rejected.

2.1.2 Composition: "Kourai-shiba."

2.2 TOPSOIL:

2.2.1 Existing Soil: Modify existing soil to conform to the requirements specified in the paragraph entitled, "Composition."

2.2.2 On-Site Topsoil: Reusable surface soil stripped and stockpiled on the site if requirements specified for topsoil in the paragraph entitled, "Composition" are met.

2.2.3 Off-Site Topsoil: Conform to requirements specified in the paragraph entitled, "Composition." Additional topsoil shall be furnished by the Contractor.

2.2.4 Composition: Shall be mixed in the proportion of one part by volume of mineral soils to one part by volume of organic soils.

- a. Mineral Soils: Shall contain not less than 1.5 percent organic matter as determined by the Organic Carbon, 6A Chemical Analysis Method described in USDA Soil Survey Investigation Report No. 1, and shall have a Ph between 5 and 7.6. The soils shall contain not less than 15 percent silt, not less than 15 percent nor more than 50 percent sand and not less than 15 percent nor more than 40 percent clay. Maximum percentage of gravel allowed shall be limited to 3 percent retained on a 6.4 mesh screen.
- b. Organic Soils (Kurotsuchi): Peat humus and mucks shall comply with requirements for mineral soils except that textural range described above for mineral soils shall not apply.

2.3 WATER: Suitable quality for irrigation.

2.4 SOIL FOR SPROUT: Shall be mixed organic soil and fertilizer.

2.5 TAKEGUSHI FOR SLOPING GROUND SURFACE: Bamboo stakes.

PART 3 - EXECUTION

3.1 TIME RESTRICTIONS AND PLANTING CONDITIONS:

3.1.1 Restrictions: Do not plant when the ground is frozen, snow covered, or muddy.

3.2 PREPARATION:

3.2.1 Subgrade: After areas required to be turfed have been brought to the required subgrade, thoroughly till to minimum depth of

15 cm (6 inches) by scarifying, disking, harrowing, or other approved methods. Remove debris and stones larger than 2.54 cm (one inch) in any dimension remaining on surface after tillage.

3.2.2 Topsoiling: Immediately prior to placing topsoil, scarify subgrade to a 5 cm (2-inch) depth for bonding of topsoil with subsoil.

Spread topsoil evenly to minimum depth of 10 cm (4-inches). Do not spread topsoil when frozen or excessively wet or dry. Correct irregularities in finished surfaces to eliminate depressions. Protect finished topsoil areas from damage by vehicular or pedestrian traffic.

3.3 SODDING:

3.3.1 Placing: Place sod a maximum of 36 hours after initial harvesting, as indicated drawing and as specified herein.

3.3.2 Finishing: After completing sodding, blend edges of sodded area smoothly into surrounding area.

3.3.3 Watering: Start watering immediately after completing each day's sodding. Apply water at a rate sufficient to insure thorough wetting of the soil to minimum depth of 10 cm (4 inches).

3.3.4 Covering Soil on Sod: As indicated on drawing.

3.4 PROTECTION OF TURF AREAS: Immediately after turfing, protect the area against traffic or other use.

3.5 RESTORATION: Restore to original condition existing turf areas which have been damaged during turfing operations. Keep at least one paved pedestrian access route and one paved vehicular access route to each building clean at all times. Clean other paving when work in adjacent area is complete.

3.6 TURF ESTABLISHMENT PERIOD:

3.6.1 Definitions:

3.6.1.1 A stand of turf is 95 percent ground cover of the established species.

3.6.2 Maintenance During Turf Establishment Period:

3.6.2.1 Mow turfed area to an average height of 5 cm whenever average height of grass becomes 9 cm.

3.6.2.2 Mow, remove excess clippings, eradicate weeds, water, fertilize, overseed, and perform other operations necessary to promote turf growth.

3.6.2.3 Post-fertilize the turfed areas with commercial grade fertilizer approximately 15 days after planting. Apply fertilizer uniformly at the rate of 6 g per square meter.

3.7 GUARANTEED PLANTING: The turf shall be guaranteed for one year, after the sodding work in progress. The guarantee will be based upon a satisfactory installed turf as defined in the paragraph entitled "Turf Establishment Period."

*** END OF SECTION ***

SECTION 02930

TREE RELOCATION AND HEDGE

PART 1 - GENERAL

1.1 SOURCE INSPECTIONS: Plant materials will be inspected by the Contractor at the growing site; tagged for size and quality., and inspected for delivery.

1.2 DELIVERY, STORAGE, AND HANDLING:

1.2.1 Delivery:

1.2.1.1 Branched Plant Delivery: Deliver branched plants with tied branches and all exposed branches covered with material which allows air circulation. Prevent damage to the root balls and desiccation of leaves.

1.2.1.2 Fertilizer, pH Adjuster, Mulching Material Delivery: Deliver fertilizer and others to the site in the original, unopened containers bearing the manufacturer's chemical analysis, name, trade name, or trademark, and indication of conformance to laws. Instead of being furnished in containers, fertilizer and lime may be furnished in bulk and a certificate indicating the above information.

1.2.1.3 Plant Labels: Deliver plants with durable waterproof labels in weather-resistant ink. Provide labels stating the correct plant name and size as specified in the list of required plants. Attach to plants, bundles, and containers of plants. Groups of plants may be labeled by tagging one plant. Labels shall be legible for a minimum of 60 days after delivery to the planting site.

1.2.2 Storage:

1.2.2.1 Plant Storage and Protection: Store and protect plants not planted on the day of arrival at the site as follows:

a. Shade and protect plants in outside storage areas from the wind and direct sunlight until planted.

b. Heel-in bare root plants.

c. Protect balled and burlapped plants from freezing or drying out by covering the balls or roots with moist burlap, sawdust, wood chips,

shredded bark, peat moss, or other approved material. Provide covering that allows air circulation.

d. Keep all plants in a moist condition until planted by watering with a fine mist spray.

1.2.3 Handling: Do not drop or dump plants from vehicles. Avoid damaging plants being moved from nursery or storage area to planting site. Handle plants carefully to avoid damaging or breaking the earth ball or root structure. Do not handle plants by the trunk or stem. Remove damaged plants from the site.

1.3 GUARANTEE: Plants installed during the fall planting season shall be guaranteed until the following August 1; plants installed during the spring planting season shall be guaranteed until the following October 1. Transplanted plants require no guarantee.

PART 2 - PRODUCTS

2.1 MATERIALS:

2.1.1 Hedge: "UBAME-GASHI"", with support log of bamboo("Kara-take") and cedar("Sugi") post with preservative, as indicated on sketches attached the task order with.

2.1.2 Tree Support for Relocated Trees: Shall consist of creosoted cedar("Sugi") log, cedar("Sugi") bark, palm rope, and steel wire, as indicated on drawing.

2.1.3 Fertilizer, pH Adjuster, Mulching Materials, and Others: In accordance with the each manufacturer's product recommendation.

PART 3 -EXECUTION

3.1 TIME RESTRICTIONS AND PLANTING CONDITIONS:

3.1.1 Planting Dates:

3.1.1.1 Deciduous material from March to June.

3.1.1.2 Evergreen material from March to July for spring planting and from September to November for fall planting.

3.1.2 Restrictions: Do not plant when ground is frozen, snow covered, or muddy.

3.2 PREPARATION:

3.2.1 Layout: Stake out approved plant material locations and bed outlines on the project site before digging plant pits or beds. The Contracting Officer reserves the right to adjust plant material locations to meet field conditions.

3.2.2 Excavation for Planting: Verify the location of underground utilities prior to excavation. Protect existing adjacent turf before excavations are made. Where planting beds occur in existing turf areas, remove the turf to a depth that will ensure the removal of the entire root system. Measure depth of pits from finished grade. Depth of excavation shall provide proper relation between top of ball and finished grade as specified in paragraph entitled "Handling."

3.2.2.1 Balled or potted plants, with ball or container less than 30 cm in diameter, excavate pits at least 40 cm larger in diameter and 15 cm deeper than size of ball or container.

3.2.2.2 Balled or potted plants, with ball or container greater than 30 cm in diameter, excavate pits at least 60 cm larger in diameter and 15 cm deeper than size of ball or container.

3.2.2.3 Trees, excavate pits at least 90 cm larger in diameter and 15 cm deeper than size of ball or spread of the root system.

3.2.3 Plant Beds: Excavate existing soil in plant beds to a minimum depth of 10 cm (4 inches) and replace with planting soil mixture. Bring plant beds to smooth and even surfaces conforming to established grades.

3.2.4 Plant Saucers: Form with topsoil around each plant by replacing a mound of topsoil around the edge of each pit. Watering basins shall be 15 cm (6 inches) deep for trees and 10 cm (4 inches) deep for shrubs.

3.3 PLANTING:

3.3.1 Handling: Move balled and burlapped and container-grown plants only by supporting the ball or container. Set plants on a hand compacted layer of planting soil 15 cm thick and hold in position until soil has been firmly placed around roots or ball. Set plants 7.6 cm to

10 cm above surrounding grade. Replace balled plants whose balls are cracked or broken either before or during the planting process.

3.3.1.1 Provide mulching material over entire earth saucer and berm surface around plants. Keep mulch out of the crowns of shrubs.

3.3.1.2 Mulch balled and burlapped, bare-root stock, and container grown stock immediately after completing backfill.

3.3.2 Balled and Burlapped Stock: Backfill with planting soil mixture, or topsoil to approximately half the depth of the ball and then tamp and water. Carefully remove or fold back excess burlap and tying materials. Tamp and complete backfill, place mulch, and water.

3.3.3 Bare-Root Stock: Plant so roots are arranged in a natural position. Remove damaged roots with a clean cut. Apply tree wound dressing to cuts larger than 13 mm in diameter. Carefully work planting soil mixture, or topsoil among roots. Tamp remainder of backfill, place mulch and water.

3.3.4 Container Grown Stock: Remove from containers to prevent damage to plant or root system. Cut root ball vertically in two to three places with sharp knife before planting.

3.3.5 Fertilization: After establishment of finished grade around plants, top dress all pit and bed areas with fertilizer. If any fertilizer adheres to plants, carefully remove it by flushing.

3.4 FINISHING:

3.4.1 Mulching: Provide mulching materials at other indicated locations 76 mm deep. Keep mulch off buildings, sidewalks, light standards, and other structures.

3.4.1.1 Placing Organic Material: Spread mulch to a uniform thickness of 76 mm.

3.4.2 Wrapping: Tie trunk wrapping material to trunks of deciduous trees with specified material within the next full working day after planting. Inspect the trunks of the deciduous trees for physical damage, insect infestation or disease, and determine required treatment or rejection prior to the wrapping operation. Begin wrapping at base and extend to first branches. Overlap the wrapping half the width of the underlying wrap and securely tie at the top, bottom, and at 46 cm maximum intervals with twine.

3.4.3 Staking and Guying:

3.4.3.1 Stake and guy for plantings as indicated on drawing.

3.4.3.2 Hold plants firmly between the stakes with a double-strand of 2 mm guying wire. Use hose chafing guards, as specified, where wire will contact the plant.

3.5 MAINTENANCE:

3.5.1 Commencement: Begin maintenance immediately after each plant is planted.

3.5.2 Inspection: Inspect plants at least once a week during installation period and perform needed maintenance promptly.

3.6 PLANT ESTABLISHMENT PERIOD: Plant establishment period will be in effect when inspection by the Contracting Officer shows that all new plants furnished under this contract have been satisfactorily installed.

3.6.1 Maintenance During Plant Establishment Period:

3.6.1.1 Water, prune, mulch, re-guy, and re-wrap and perform other operation necessary to promote plant growth.

3.6.1.2 Fertilize plants at least once during the plant establishment period in accordance with the fertilizer's manufacturer.

3.6.1.3 Remove and replace dead plants immediately, and replace stakes, guys, wraps, and eroded plant saucers required. No additional plant establishment period will be required for replacement plants.

3.6.1.4 Plants not in healthy growing condition, as determined by the Contracting Officer, will be noted and as soon as seasonal conditions permit shall be removed and replaced with plants of the same species and size as originally specified. Make replacements in same manner as specified for original plantings.

3.7 FINAL INSPECTION AND ACCEPTANCE:

3.7.1 Final Inspection: Final inspection will be made upon written request at least 10 days prior to the anticipated date. Prior to final inspection, fertilize all plants.

3.7.2 Final Acceptance: Based on compliance with the following:

3.7.2.1 Plants have been accepted and required number of replacements are in place.

3.7.2.2 Plant beds and plant saucers are properly mulched and free of weeds.

3.7.2.3 Stakes and guys are in good condition.

3.7.2.4 Remedial measures directed by the Contracting Officer to ensure plant survival have been carried out.

3.7.2.5 Plant materials have been fertilized as required.

*** END OF SECTION ***

DIVISION 3

CONCRETE

SECTION 03300

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 REFERENCES: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 Japanese Architectural Standard Specification:

JASS 5-97	Reinforced Concrete Work
JASS 15-98	Plastering Work

1.1.2 Japanese Industrial Standards (JIS):

A 5001-95	Crushed Stone for Road Construction
A 5308-98	Ready-Mixed Concrete
G 3112-87	Steel Bars for Concrete Reinforcement
G 3101-95	Rolled Steel for General Structure
R 5210-97	Portland Cement

1.1.3 Japanese Agricultural Standard (JAS) Association Publication:

932-83	Plywood for Forms Used in Concrete Work
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1.1.4 Japan Road Association (JRA) Publications:

Engineering Guide for Plant-recycled Asphalt Pavement
("Plant Saisei Hosoh Gijyutsu Shishin")

1.2 DELIVERY, STORAGE, AND HANDLING: In accordance with JASS 5.

1.3 SUBMITTALS: Submit the following in accordance with Section 01330, entitled "Submittal Procedures."

1.3.1 SD-05, Design Data:

a. Concrete mix design: Thirty days minimum prior to concrete placement, submit a mix design for each strength and type of concrete. Submit a complete list of materials including type; brand; source and amount of cement, and admixtures; and applicable reference

specifications. Submit additional data regarding concrete aggregates if the source of aggregate changes. Submittal shall clearly indicate where each mix design will be used when more than one mix design is submitted. Obtain acknowledgement of receipt prior to concrete placement.

PART 2 - PRODUCTS

2.1 MATERIALS:

2.1.1 Concrete: JASS 5 and JIS A 5308. Provide concrete aggregate of maximum size 20 mm. Provide 4 to 5 percent air entrainment for concrete exposed to the weather. Accomplish air entrainment using an air-entraining admixture. The maximum chloride content shall be between 0.3 kg/m³ through 0.6 kg/m³. Slump shall be 15 cm. 28-day compressive strength of concrete shall be as 21 N/mm².

2.1.2 Materials for Forms: JAS "Plywood for Forms Used in Concrete Work."

2.1.3 Reinforcing Bars: JIS G 3112, Type SD295A, as indicated on drawing.

2.1.4 Base Course: JRA recycled crushed stone, RC-40,
"Engineering Guide for Plant-recycled Asphalt Pavement."

2.1.5 Stainless Steel Non-slip Nosing with Anchor: Stainless-steel non-slip patterned plate (SUS 304) with anchor plate.

2.1.6 Cement Mortar: Consist of Portland cement (JIS R 5210), aggregate, water, and admixture, in accordance with JASS 15, "Cement Mortar on Concrete Surface".

2.1.7 Steel Plate: JIS G 3101, SS400, as indicated on drawing.

PART 3 - EXECUTION

3.1 WORK PROCEDURE: In accordance with JASS 5 and the each manufacturer's instruction, as indicated on drawing.

*** END OF SECTION ***

DIVISION 5
METALS
SECTION 05500
HANDRAILS

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The following publications of the issues listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 Japanese Industrial Standards (JIS):

G 3448-97 Light Gauge Stainless Steel Tubes for Ordinary Piping

1.2 DESCRIPTION: The work includes providing rock protection fence system at the location indicated. The rock protection fence system is intended to protect people and facilities from injuries due to rock fall.

1.3 DELIVERY, STORAGE AND PROTECTION: Deliver materials to the site in an undamaged condition. Store materials off the ground to provide protection against oxidation caused by ground contact.

PART 2 - PRODUCTS

2.1 HANDRAIL: JIS G 3448, Type SUS 304, factory-fabricated by welding. All exposed surface of handrail shall be finished by buffing with BUFF#400 roll.

PART 3 - EXECUTION

3.1 INSTALLATION: Install the handrail as indicated on drawing.

*** END OF SECTION ***

DIVISION 13
SPECIAL CONSTRUCTION
SECTION 13121
PREFABRICATED ITEMS

PART 1 - GENERAL

1.1 DELIVERY AND STORAGE: Deliver, store, and handle manufactured items so that materials remain dry and undamaged. Do not store in contact with materials that might cause staining.

1.2 SUBMITTALS: Submit the following items as specified in Section 01330, "Submittal Procedures".

1.2.1 SD-02, Manufacturer's Catalog Data:

- a. Gazebo
- b. Table with benches

1.2.2 SD-04, Shop Drawing:

- a. Gazebo

1.3 COLOR SELECTION: Where not indicated or specified, color shall be selected by the Contracting Officer from the manufacturer's color sample.

PART 2 - PRODUCTS

2.1 MATERIALS:

2.1.1 Gazebo: Consist of asphalt shingle roof, wood framing and sheathing board, waterproof finish type pre-cast concrete column, beam, table, bench, bench back, and related items, as indicated on drawing. Wood framing and sheathing board shall be treated with preservative agent.

2.1.2 Table with Benches: Consist of pre-coated steel framing, pre-coated punching steel sheet table top and bench sheet, and related items, as indicated on drawing.

2.1.2.1 Expansion Anchor: Tubular, multi-slit, internal thread, with stud bolt having a head of the expander shape, as indicated on drawing. Do not use plastic material.

PART 3 - EXECUTION

3.1 ERECTION OF GAZEBO: In accordance with the manufacturer's approved erection instructions and diagrams, as indicated on drawing.

*** END OF SECTION ***

GENERAL DESCRIPTION OF WORK:

CIVIL:

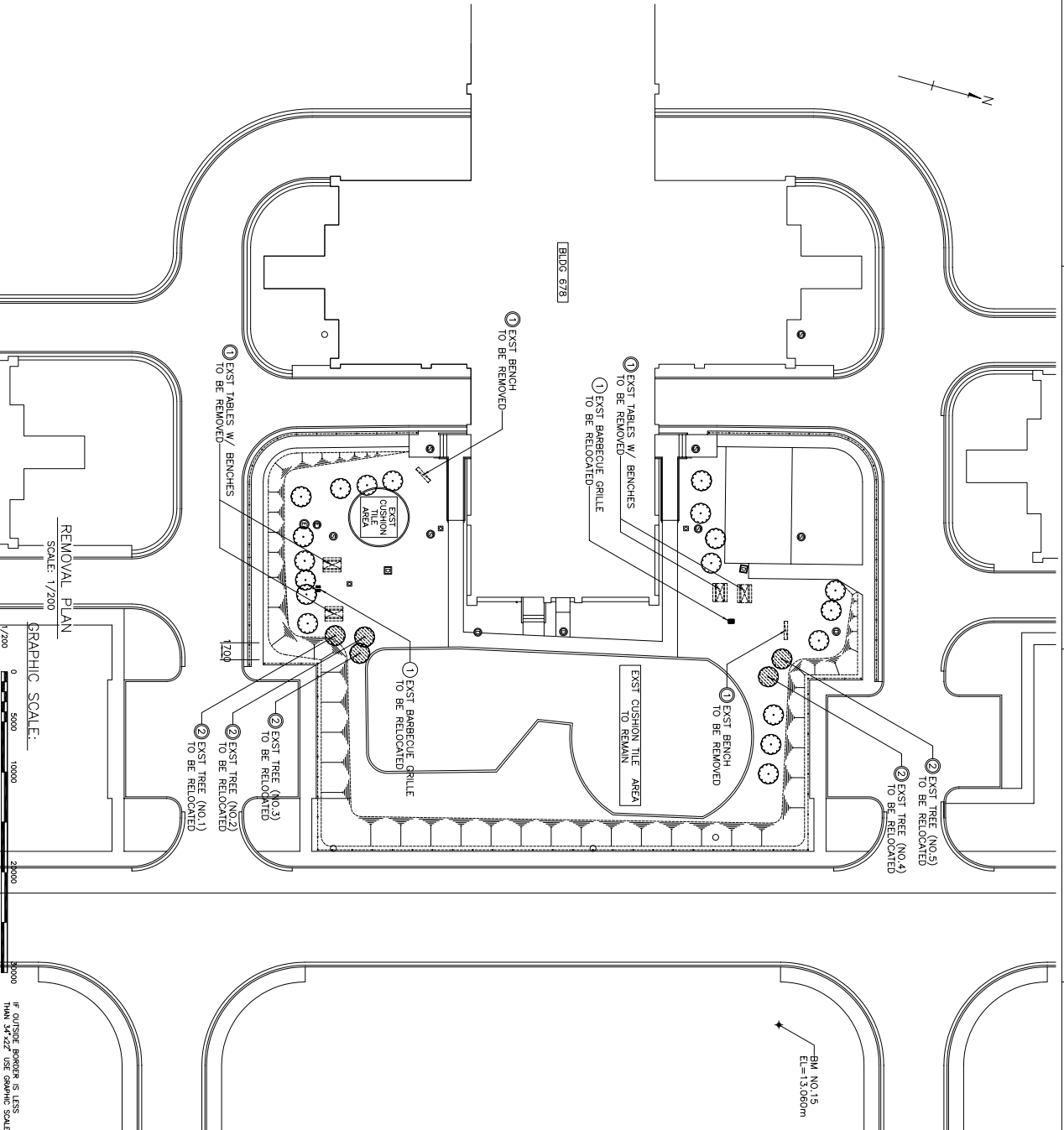
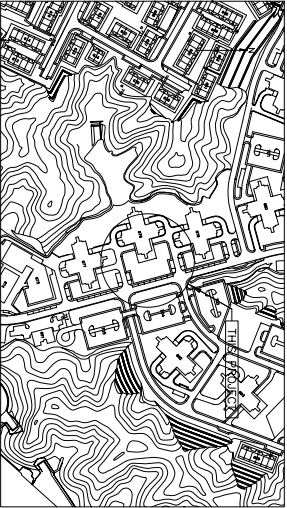
1. REMOVE EXISTING TABLES AND BENCHES AS SHOWN.
 2. RELOCATE EXISTING TREES AS SHOWN.
 3. PROVIDE NEW CONCRETE RETAINING WALLS AS SHOWN.
 4. PROVIDE NEW CONCRETE STAIRS WITH STAINLESS STEEL HANDRAILS AS SHOWN.
 5. PROVIDE NEW SIDEWALK AS SHOWN.
 6. PROVIDE NEW CONCRETE PAVEMENT AROUND BUILDING AS SHOWN.
 7. PROVIDE NEW MESH FENCE AS SHOWN.
 8. PROVIDE NEW HEDGES WITH BAMBOO FENCES AS SHOWN.
 9. PROVIDE NEW SODDING ON REGRADED EARTH AREA AS SHOWN.
- ARCH:
1. RELOCATE EXISTING BARBECUE GRILLES TO NEW GAZEBOS AS SHOWN.
 2. PROVIDE NEW PREFABRICATED GAZEBOS AS SHOWN.
 3. PROVIDE NEW TABLES WITH BENCHES AS SHOWN.
- GENERAL NOTES:
1. ALL STEEL CONNECTIONS EXCEPT WHERE BOLTED SHALL BE ELECTRIC ARC WELDED.
 2. ALL WORK AND MATERIALS ARE NEW EXCEPT WHERE INDICATED AS EXISTING.
 3. UNLESS OTHERWISE INDICATED, ALL EXISTING OBJECTS WHICH INTERFERE WITH NEW WORK SHALL BE REMOVED TEMPORARILY AND REINSTALLED UPON COMPLETION OF NEW WORK.
 4. UNLESS OTHERWISE INDICATED, SIZES AND DIMENSIONS ARE IN MILLIMETERS.
 5. THE QUANTITIES ON DRAWINGS ARE FOR BIDDING PURPOSE ONLY.

ABBREVIATIONS:

AC	ASPHALT CONCRETE	H	HEIGHT
AD	AT	MO	MORTAR
BD	BOARD	OC	ON CENTER
CD	CONCRETE	PC	PRECAST CONCRETE
BLDG	BUILDING	PV	PAVE
CONC	CONCRETE	STL	STEEL
6	DIMENSION	TK	THICKNESS
EW	EACH WAY	UG	UNDERGROUND
EL	ELEVATION	W	WOOD
EX	EXISTING	WP	WOODEN PATTERN
FIN	FINISH		
FL	FLOOR		
GL	GROUND LEVEL		
GSL	GALVANIZED STEEL		

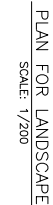
SYMBOL:

- NO. INDICATES PLAN, SECTION, OR DETAIL
- DIV DWG NO. ON WHICH DETAIL IS SHOWN
- DIV DWG NO. FROM WHICH DETAIL IS TAKEN
- NUMBERS SHOWN ON PLAN CORRESPOND TO NUMBERS SHOWN IN GENERAL DESCRIPTION OF ARCHITECTURAL WORK
- NUMBERS SHOWN ON PLAN CORRESPOND TO NUMBERS SHOWN IN GENERAL DESCRIPTION OF CIVIL WORK



DEPARTMENT OF THE NAVY OICC FAR EAST YOKOSUKA, JAPAN HOUSING ACTIVITY CIVIL ENGINEER, COMMANDER U.S. NAVAL FORCE, JAPAN REPAIR PICNIC AREA AND EROSION IKEGO REMOVAL PLAN	NAVY FACILITIES ENGINEERING COMMAND OICC FAR EAST YOKOSUKA, JAPAN HOUSING ACTIVITY CIVIL ENGINEER, COMMANDER U.S. NAVAL FORCE, JAPAN REPAIR PICNIC AREA AND EROSION IKEGO REMOVAL PLAN	PUBLIC WORKS CENTER, JAPAN DESIGN & ENGINEERING DEPT. DESIGN/ENGINEER: DATE: 06/24/01 CHK: SUBMITTED BY: DATE: TITLE: FUNCTIONAL APPROVAL: DATE: APPROVED: DATE: EFD FOR COMMANDER NAVFAC	PWC/OICC/ROICC REVIEW/SUPV. ACQ DIR: ELECT: DSQNDIR: CIVIL: PDE/EIC: FIRE PROT: ARCH: V-E: STRUCT: ROICC: MECH: LTR DESCRIPTION REVISIONS PREP. BY: DATE: APPROVED
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WO # BOFF



IF OUTSIDE BORDER IS LESS
THAN 34"x22" USE GRAPHIC SCALE

WO # BCRYFF

SPEC. SHEET 2 OF 7		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND OICC FAR EAST YOKOSUKA, JAPAN	
DWG. NO. C2		HOUSING ACTIVITY CIVIL ENGINEER, COMMANDER U.S. NAVAL FORCE, JAPAN REPAIR PICNIC AREA AND EROSION IKEGO NEW PLANS	
DRAWING NAME: D CONST. CONT. NO. N28256 30-03-C-0176 SPEC. 42-03-0176 NAFAC JAPAN NO. 78353330		CODE ID. NO. B0091 DRAWING SIZE: D	

PUBLIC WORKS CENTER, JAPAN		
DESIGN & ENGINEERING DEPT		
DSGNT, Tanaka	DATE 06/16/03	CHK
SUBMITTED BY	TITLE	DATE
FUNCTIONAL APPROVAL		DATE
APPROVED		DATE
EFD FOR COMMANDER, NAVFAC		

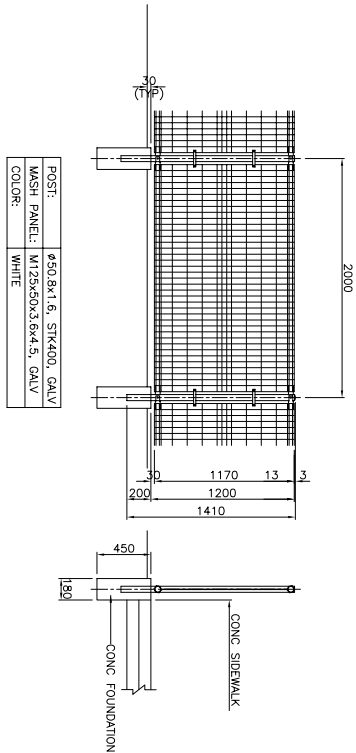
PWC/OICC/ROICC	REVIEW/SUPV.
ACQ DIR:	ELECT:
DSGNDIR:	CIVIL:
PDE/EIC:	FIRE PROT:
ARCH:	V-E:
STRUCT:	ROICC:
MECH:	

LTR	DESCRIPTION	PREP.	BY	DATE	APPROVED
REVISIONS					



DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND OICC FAR EAST YOKOSUKA, JAPAN		PUBLIC WORKS CENTER, JAPAN DESIGN & ENGINEERING DEPT. DESIGN/CONSTRUCTION DATE 06/24/81 CHK SUBMITTED BY TITLE DATE FUNCTIONAL APPROVAL DATE APPROVED DATE FOR USE BY COMMANDER MUSEK		PWC/OICC/ROICC REVIEW/SUPV. ACC DIR: ELECT: CIVIL: PDE/EIC: FIRE PROT: V-E: ROICC: LTR DESCRIPTION STRUCT:		PREP. BY DATE APPROVED	
HOUSING ACTIVITY CIVIL ENGINEER, COMMANDER U.S. NAVAL FORCE, JAPAN REPAIR PICNIC AREA AND EROSION IKEGO DETAILS OF CONC RETAINING WALL		SHEET 3 OF 7 PWC Dwg. NO. DW. NO. C3		REVISIONS			

LTR	DESCRIPTION	PREP.	BY	DATE	APPROVED
REVISIONS					



6 TYP DETAIL OF MESH FENCE
SCALE: 1/20

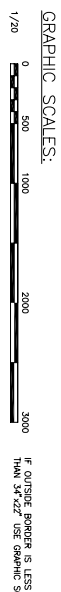
2 CONC PAVE
SCALE: 1/20

1 CONC PAVE
SCALE: 1/20

5 TYP SECTION
NOT TO SCALE

3 CONC SIDEWALK
SCALE: 1/20

4 CONC SIDEWALK
SCALE: 1/20



IF OUTSIDE BORDER IS LESS THAN 3/4" SEE GRAPHIC SCALE

WO # BOVF

DEPARTMENT OF THE NAVY HOUSING ACTIVITY CIVIL ENGINEER, COMMANDER U.S. NAVAL FORCE, JAPAN REPAIR PICNIC AREA AND EROSION IKEGO TYP DETAILS OF CONC PAVE, SIDEWALK AND FENCE				PUBLIC WORKS CENTER, JAPAN DESIGN & ENGINEERING DEPT. DESIGNER: DATE: 06/24/01 CHK: SUBMITTED BY: TITLE: DATE: FUNCTIONAL APPROVAL: DATE: APPROVED: DATE: EFD FOR COMMANDER NAVFAC				PWC/OICC/ROICC REVIEW/SUPV. ACQ DIR: ELECT: DSGNDR: CIVIL: PDE/EIC: FIRE PROT: ARCH: V-E: STRUCT: ROICC: MECH:				REVISIONS PREP. BY: DATE: APPROVED:			
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DESCRIPTION	PREP BY	DATE	APPROVED
REVISIONS			